Department of Planning and Zoning

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TO:

Development Review Board

FROM:

Scott Gustin A)

DATE:

August 19, 2014

RE:

14-0747SD; 1891 North Avenue

Note: These are staff comments only; decisions on projects are made by the Development Review Board, which may approve, deny, table or modify any project. THE APPLICANT OR REPRESENTATIVE MUST ATTEND THE MEETING.

Zone: RL

Ward: 4

Owner/Applicant: Tom & Jill Mitchell

Request: Subdivide two lots into three lots, remove existing single family house, construct two duplexes and one single family home

Applicable Regulations:

Article 3 (Applications and Reviews), Article 4 (Maps & Districts), Article 5 (Citywide General Regulations), Article 6 (Development Criteria & Guidelines), Article 8 (Parking), and Article 10 (Subdivision)

Background Information:

The applicant is seeking approval of a proposed 3-lot, 5-dwelling unit subdivision. Two existing adjacent lots would be subdivided and reconfigured into 3 lots. Two duplexes and one single family home would be constructed. An existing mobile home along North Avenue would be demolished and replaced with one of the two new duplexes. The end result is 4 net new dwelling units. This proposal amounts to a minor subdivision (i.e. less than 5 net new dwelling units or lots) and is reviewed as a combined preliminary/final plat application.

This application went through sketch plan review by the Development Review Board on July 17, 2012. The Design Advisory Board reviewed it February 25, 2014 DAB and, on a 4-1 vote, recommended approval subject to the following conditions:

- 1. Clarity of tree retention versus removal. What trees will be removed and what trees, if any, will remain? Are any of the existing trees "specimen trees?"
- 2. Front walkways that connect each new home to the public sidewalk or street network.
- 3. A more robust landscaping plan that defines spaces within the development and screens parking areas and utilities.
- 4. Outdoor lighting fixture locations, cut sheets, and illumination levels.
- 5. Window materials and cut sheets.
- 6. Utility meter locations and screening. Locations and screening of mechanical equipment, if any is proposed.

Revised application plans have been submitted to address the DAB's recommendation.

The Conservation Board reviewed the application March 10, 2014 and unanimously recommended approval subject to the standard stormwater management and erosion prevention and sediment control conditions.

Recommendation: Consent approval as per, and subject to, the following findings and conditions.

I. Findings

Article 3: Applications and Reviews

Part 5, Conditional Use & Major Impact Review:

Sec. 3.5.6, Review Criteria

(a) Conditional Use Review Standards

1. The capacity of existing or planned community facilities;

The proposed development will be served by municipal water and sewer. Sufficient capacity is likely available; however, written confirmation from the Department of Public Works will be required. Any new lines to service the development will have to be installed by the applicant/owner. A state wastewater permit will also be needed prior to construction. Impact fees will be assessed based on the net new residential square footage to help offset what impacts there may be to other municipal services. (Affirmative finding as conditioned)

2. The character of the area affected;

The proposed subdivision in located in the Residential Low Density zone. This zone is primarily intended for detached single family homes and duplexes. The surrounding neighborhood reflects this intent, consisting largely of detached single family homes to the south and east. The Northgate apartment complex includes a different development pattern and is located to the north and west. The proposed density and development pattern is similar to that along neighboring residential streets and reflects the intent of the RL zone. (Affirmative finding)

3. Traffic on roads and highways in the vicinity;

No traffic analysis has been provided nor is required for a project of this small scope. Additional traffic generation associated with the new dwelling units can reasonably be expected to be minor. (Affirmative finding)

4. Bylaws then in effect;

As conditioned, this subdivision proposal is consistent with all applicable bylaws. (Affirmative finding)

5. Utilization of renewable energy resources;

Utilization of renewable energy resources is not included in this application. As proposed, the development will not preclude such utilization on the subject property or on neighboring properties in the future. (Affirmative finding)

6. Cumulative impacts of the proposed use;

This criterion requires that cumulative impacts associated with residential development where it is permitted be deemed negligible. Single family homes and duplexes are allowed residential uses in the RL zone. (Affirmative finding)

7. Functional family;

Not applicable. The application contains no request to inhabit the new dwelling units with anything other than families.

8. Vehicular access points;

See Sec. 6.2.2 (i).

9. Signs;

No signage is included in this proposal.

10. Mitigation measures;

The proposed small scale residential development will not generate offsite noise or glare substantial enough to require mitigation. (Affirmative finding)

11. Time limits for construction;

The application contains no request for extended construction. As a result, the standard 2-year time frame will apply. The applicant is advised to consider phasing construction of the dwelling units to that they may be occupied as they are completed one-by-one. Otherwise, occupancy would not be allowed until the entire development is complete. If phasing is sought, a phasing plan must be provided prior to review by the Development Review Board. (Affirmative finding)

12. Hours of operation and construction;

Hours of operation need not be specified for this residential development. No days or hours of construction have been proposed in a construction schedule. Consistency with other construction projects in the RL and WRL zones yields days and hours of construction of Monday – Saturday, 7:00 AM – 6:00 PM. (Affirmative finding as conditioned)

13. Future enlargement or alterations;

In the event of future enlargement or alteration, permits would be required and reviewed under the regulations then in effect.

14. Performance standards;

Performance standards relating to outdoor lighting and erosion control are addressed under Article 5 of these findings.

15. Conditions and safeguards;

Conditions of approval will ensure compliance with the standards of the Comprehensive Development Ordinance.

Article 4: Maps & Districts

Sec. 4.4.5, Residential Districts:

(a) Purpose

(1) Residential Low Density (RL)

The subject property is located in the RL zone, which is intended primarily for single family homes and duplexes. The proposed development consists exactly of that – two duplexes and a single family home. (Affirmative finding as conditioned)

(b) Dimensional Standards & Density

The two duplex lots exceed the minimum duplex lot size of 10,000 sf, and the proposed single family home lot exceeds the minimum single family home lot size of 6,000 sf.

Proposed lot coverage will be 23.6%, 23.6%, and 20% on lots 1, 2, and 3, respectively. These coverages are below the 35% limit in the RL zone.

Front yard setbacks on lots 1 and 3 are based on the average front yard setback of neighboring properties. They are compliant with the applicable averages. Lot 2 is effectively an interior lot and may establish its own front yard setback. As proposed, the 22' front yard setback is similar to that of neighboring properties. Side and rear yard setbacks as 10% of lot width and 25% of lot depth, respectively, are compliant as well.

The two duplexes are about 21' tall to the midpoint of their roofs' rise. The single family home is shorter at just 14' to the midpoint of its roof rise. The height limit in this zone is 35'. (Affirmative finding)

(c) Permitted & Conditional Uses

The subdivision is subject to conditional use review. Duplexes are allowed on existing lots in the RL zone, also subject to conditional use review. Insofar as the two proposed duplexes will be constructed on the existing lots with the single family home to be constructed on the newly created third lot, this requirement has been met. (Affirmative finding)

(d) District Specific Regulations

1. Setbacks

No setback encroachments are sought.

2. Height

No height exceptions are sought.

3. Lot Coverage

No lot coverage exceptions are sought.

4. Accessory Residential Structures and Uses

No accessory structures are included in this proposal.

5. Residential Density

The proposed residential units are subject to the functional family provisions of the Comprehensive Development Ordinance. (Affirmative finding as conditioned)

6. Uses

Not applicable.

7. Residential Development Bonuses

No development bonuses are being sought.

Article 5: Citywide General Regulations Sec. 5.2.3, Lot Coverage Requirements

See Sec. 4.4.5 (b) above.

Sec. 5.2.4, Buildable Area Calculation

Not applicable.

Sec. 5.2.5, Setbacks

See Sec. 4.4.5 (b) above.

Sec. 5.2.6, Building Height Limits

See Sec. 4.4.5 (d) above.

Sec. 5.2.7, Density and Intensity of Development Calculations

See Sec. 4.5.5 above.

Sec. 5.5.1, Nuisance Regulations

Nothing in the proposal appears to constitute a nuisance under this criterion. (Affirmative finding)

Sec. 5.5.2, Outdoor Lighting.

Five types of outdoor lighting fixtures are proposed as options for the new homes (3 lantern type fixtures and 2 spotlight fixtures). All of them use low-wattage bulbs and are likely acceptable. No lumens information has been provided and must be in order to confirm their acceptability. Lumens may not exceed 2,000 to qualify as acceptable low-output lamps. Fixture locations are noted on the site plan but are not depicted on the building elevation drawings and must be. (Affirmative finding as conditioned)

Sec. 5.5.3, Stormwater and Erosion Control

The stormwater management plan has been reviewed and approved by the Stormwater Administrator. Proposed management is simple given the ample green space and very pervious soils. Rooftop runoff will be collected by gutters and dispersed by way of downspouts onto surrounding green space for infiltration into the ground. Driveways will be graded to direct runoff onto adjacent green space for infiltration. No stormwater runoff will be directed into the city system. The construction site erosion prevention and sediment control plan has also been reviewed and approved by the Stormwater Administrator.

The Conservation Board reviewed the proposed stormwater management plan and erosion prevention and sediment control plan on March 10, 2014 and recommended approval of them subject to the standard stormwater and erosion control conditions. (Affirmative finding as conditioned)

Article 6: Development Review Standards:

Part 1, Land Division Design Standards

Sec. 6.1.2, Review Standards

(a) Protection of important natural features

The property contains no significant natural areas as defined in the Open Space Protection Plan or as depicted in any of the Natural Resource Protection Overlay District maps. A number of trees are present. The applicant has revised the site plan to better indicate which existing trees will be retained versus removed and which trees are to be newly planted. None of the trees qualify as

specimen trees (i.e. 30" + caliper and/or more than 100 years old as determined by a certified arborist). (Affirmative finding)

(b) Block size and arrangement

Not applicable. No new blocks are proposed.

(c) Arrangement of Lots

Lot 3 will be regularly shaped. Lot 1 will be somewhat irregular to allow for an irregular lot 2. The irregular shape of lot 2 is proposed in order to meet the minimum lot frontage requirement of 60' along a public roadway. Such lots are discouraged and shall be allowed only where topography and existing block and lot arrangement allow no suitable alternative. If lot 2 is to be created, there is no other alternative for public road frontage. The Development Review Board reviewed this configuration at sketch plan and did not find it objectionable. The grading and utility plan depicts utility easements for lots 1 and 2 across lot 3 for services stemming from North Avenue. An access easement will be required for lot 2's driveway across lot 3. (Affirmative finding as conditioned)

(d) Connectivity of streets within the city street grid

No new streets are proposed. New private driveways will access the existing street network. (Affirmative finding)

(e) Connectivity of sidewalks, trails, and natural systems

The existing public sidewalk system will be unaffected by the proposed development. There are no nearby trail networks or contiguous lengths of green space. (Affirmative finding)

Part 2, Site Plan Design Standards

Sec. 6.2.2, Review Standards

(a) Protection of important natural features

See Sec. 6.1.2 (a) above.

(b) Topographical alterations

The property is essentially flat and will remain so. Some limited grading is proposed to direct stormwater runoff into surrounding green spaces. (Affirmative finding)

(c) Protection of important public views

There are no important public views from or through the property. (Affirmative finding)

(d) Protection of important cultural resources

The site has no known archaeological resources. (Affirmative finding)

(e) Supporting the use of alternative energy

No alternative energy resources are included in the project plans. Use of alternative energies on the subject, or neighboring properties, in the future is not precluded by this development. (Affirmative finding)

(f) Brownfield sites

The property is not included on the Vermont DEC's Hazardous Sites List. (Affirmative finding)

(g) Provide for nature's events

See Sec. 5.5.3 for stormwater management.

There is ample room onsite for seasonal snow storage. Building entries are sheltered with overhangs to provide protection during inclement weather. (Affirmative finding)

(h) Building location and orientation

The two duplexes will be located along existing public streets and will be aligned with neighboring homes. Garage and driveway parking space will be provided for both duplexes. Both duplex structures appear to be identical. Each building is 59' wide, and each has a 22' wide garage. Per this criterion, garages facing the street shall not exceed 24' width or 50% of the entire structure width, whichever is less. As proposed, the 22' wide garages are under this limit at 37% of the structure width. The garage faces of both duplexes are recessed and are 25' set back from the front property lines as required. The new single family home will sit between the two duplexes and will have no discernible impact on the North Avenue or Northgate Road streetscapes. The single family home will have an attached garage, but it does not face the street. As a result the garage width limitations of this criterion do not apply. (Affirmative finding)

(i) Vehicular access

The existing curb cut along North Avenue will be used for the new single family home on lot 2. Two new curb cuts on North Avenue will serve the two driveways into the new duplex on Lot 3. A new curb cut will be established along Northgate Road. Department of Public Works approval will be required for the new curb cuts. The duplexes will have two 10° wide driveways for each unit, and the single family home will have a 10° wide driveway. These widths are within the acceptable range of $7^{\circ} - 18^{\circ}$ for residential driveways. (Affirmative finding)

(i) Pedestrian access

The revised site plan depicts walkways connecting the homes on lots 2 and 3 to the North Avenue sidewalk. Walkways will connect the duplex on lot 1 to Northgate Road. The walkways parallel the driveways and consist of stamped and painted asphalt. The walkway along the driveway for lot 2 also provides the 14' wide (10' driveway + 4' walkway) access required by the Fire Marshal to this center lot. (Affirmative finding)

(k) Accessibility for the handicapped

There is no indication that any of the dwelling units will be handicap accessible or that they need to be. (Affirmative finding)

(1) Parking and circulation

All of the proposed dwelling units will have associated parking. Both required spaces will be provided within the attached garage for the single family home. Each duplex unit will have one garage space and one driveway space. The parking and driveway arrangement for the single family home allows vehicles to enter and leave without backing out onto a city street. Both duplexes include short, straight driveways that require driving in forward and backing out. There was considerable discussion at the Design Advisory Board about this arrangement for lot 3 (on North Avenue) and whether it was acceptable. The Board ultimately approved it as is, primarily due to the prevalence of other such driveways in the neighborhood and the "collector street" designation of this northern section of North Avenue. (Affirmative finding)

(m) Landscaping and fences

As recommended by the DAB, some additional landscaping information has been provided. Tree retention and removal has been clarified. New plantings have been identified on the site plan and consist of new deciduous and coniferous trees and new shrubs. The new trees are proposed along property lines to help delineate the interior boundaries. A cluster of arborvitae are proposed to help screen a portion of the driveway serving the new single family home. While the proposed landscaping remains basic, it is adequate for a project of this small scope. (Affirmative finding)

(n) Public plazas and open space

Not applicable. No public plazas or open space are included in this proposal.

(o) Outdoor lighting

See Sec. 5.5.2.

(p) Integrate infrastructure into the design

All utility lines must be buried. Utility vaults for each home are depicted on the grading and utility plan; however, no screening is evident. While the vaults are located by the sides of the structures, screening, in the form of landscaping, is needed. There are no communal recycling or trash facilities. These items will be handled separately by each homeowner. (Affirmative finding as conditioned)

Part 3, Architectural Design Standards

Sec. 6.3.2, Review Standards

(a) Relate development to its environment

1. Massing, Height, and Scale

The subject property is sited between single family homes along Dewey Drive and the very large Northgate Apartments complex. The homes along Dewey Drive are relatively small as compared to the Northgate Apartments; however, the apartment buildings are sectionalized in components roughly approximate to the scale of the Dewey Drive homes. The new homes included in this proposal retain this consistent scale. The two duplexes (which are mirror images of each other) read as individual dwelling units connected by way of a shared garage. This arrangement lessens perceived building bulk and provides a degree of separation of the living quarters. The proposed single family home is smaller than the duplexes and is comprised of several distinct components. Its massing and scale are consistent with neighboring single family homes. All three of the proposed buildings are well under the 35' height limit. The single family home is just a single story. The two duplexes are two stories. The proposed building heights are consistent with nearby homes. (Affirmative finding)

2. Roofs and Rooflines

Pitched gable roofs with varying orientations are proposed. This roof form is common amongst neighborhood homes. (Affirmative finding)

3. Building Openings

Fenestration amongst all of the proposed buildings is similar. It is evenly placed throughout each structure and consists of fairly basic one-over-one double-hung windows with some smaller awing windows interspersed on the side elevations. The double-hung units are more vertical than horizontal as required. Building entries are sheltered with entry porches.

(Affirmative finding)

(b) Protection of important architectural resources

An existing mobile home will be demolished as part of this proposal. It is not historically significant, nor are any neighboring structures historically significant. (Affirmative finding)

(c) Protection of important public views See 6.2.2 (c) above.

(d) Provide an active and inviting street edge

The proposed duplexes reinforce the existing street edge created by existing homes along North Avenue and Northgate Road. Both clearly face the street and have readily identifiable front entries within open porches. Walkways connect them to the public street. The single family home is situated between the two duplexes and, as such, does not have a street presence. (Affirmative finding)

(e) Quality of materials

All of the homes will be clad in vinyl siding ("clapboards" and "shakes"). Fiber cement trim will be installed throughout. Asphalt shingles will be installed on the roofs. The single family home will utilize wooden railings for its porch. Vinyl windows are proposed. The proposed materials palate is one common to new construction and is of acceptable quality and durability. (Affirmative finding)

(f) Reduce energy utilization

The proposed construction must comply with the city's current energy efficiency requirements. Nothing above and beyond the minimum requirements is noted in the project plans. (Affirmative finding)

(g) Make advertising features complimentary to the site Not applicable.

(h) Integrate infrastructure into the building design

Utility line locations are noted on the plans, but meter locations are not. They must be depicted and screened. No exterior mechanical equipment is included in the project plans. Trash should be stored inside the garages until curb side pick-up days. (Affirmative finding as conditioned)

(i) Make spaces safe and secure

The new buildings will be subject to current egress requirements. Building entries will be illuminated. (Affirmative finding as conditioned)

Article 8: Parking

Sec. 8.1.8, Minimum Off-Street Parking Requirements

The subject property is located in the neighborhood parking district. As a result, each one of the dwelling units requires a minimum of 2 parking spaces. The site plan depicts sufficient parking, including garage and surface spaces, for each of the units. (Affirmative finding)

Sec. 8.2.5, Bicycle Parking Requirements

No bicycle parking is required for the proposed single family and duplex dwelling units. (Affirmative finding)

Article 10: Subdivision

See Articles 3, 4, 5, and 6 of these findings.

II. Conditions of Approval

- 1. Within 180 days of the date of final approval, the subdivision plat mylar, with all applicable endorsement signatures, shall be filed with the City Clerk per Sec. 10.1.11 of the Comprehensive Development Ordinance. Failure to do so shall render void the final plat approval.
- 2. **Prior to release of the zoning permit**, revised plans shall be submitted subject to staff review and approval. Revised plans shall include:
 - a. Outdoor lighting fixture locations on building elevation drawings;
 - b. Lumens information for each proposed outdoor lighting fixture;
 - c. Access easement for lot 2 across lot 3;
 - d. Screening for utility vaults; and,
 - e. Locations and screening for utility meters.
- 3. This approval incorporates the July 17, 2014 approval by the Stormwater Administrator of the Erosion Prevention & Sediment Control Plan.
- 4. Days and hours of construction shall be limited to Monday Saturday, 7:00 AM 6:00 PM.
- 5. At least 7 days prior to the issuance of a certificate of occupancy, the applicant shall pay to the Treasurer's Office the impact fee as calculated by staff based on the net new square footage of the proposed development.
- 6. Each new residence included in this approval is subject to the functional family provisions of the Comprehensive Development Ordinance.
- 7. A State of Vermont wastewater permit is required. Written confirmation from the Department of Public Works as to adequate municipal sewer capacity is also required.
- 8. The proposed construction shall comply with Burlington's current energy efficiency standards and with Burlington's current egress requirements as established by Burlington Electric Department and Burlington Public Works, respectively.
- 9. Standard permit conditions 1 -15.



DEPARTMENT OF PLANNING & ZONING

TOM MITCHELL 1891 NORTH AVENUE RESIDENTIAL SUBDIVISION

CITY OF BURLINGTON

LIST OF DRAWINGS

- C-1EXISTING CONDITIONS
- C-2SITE PLAN
- C-3GRADING & UTILITY PLAN
- C-4DETAILS
- C-5DETAILS
- C-6SPECIFICATIONS
- C-7SPECIFICATIONS
- EC-1.....EPSC/STORMWATER PLAN

OWNER

TOM MITCHELL

27 REVERE COURT

BURLINGTON, VERMONT 05405

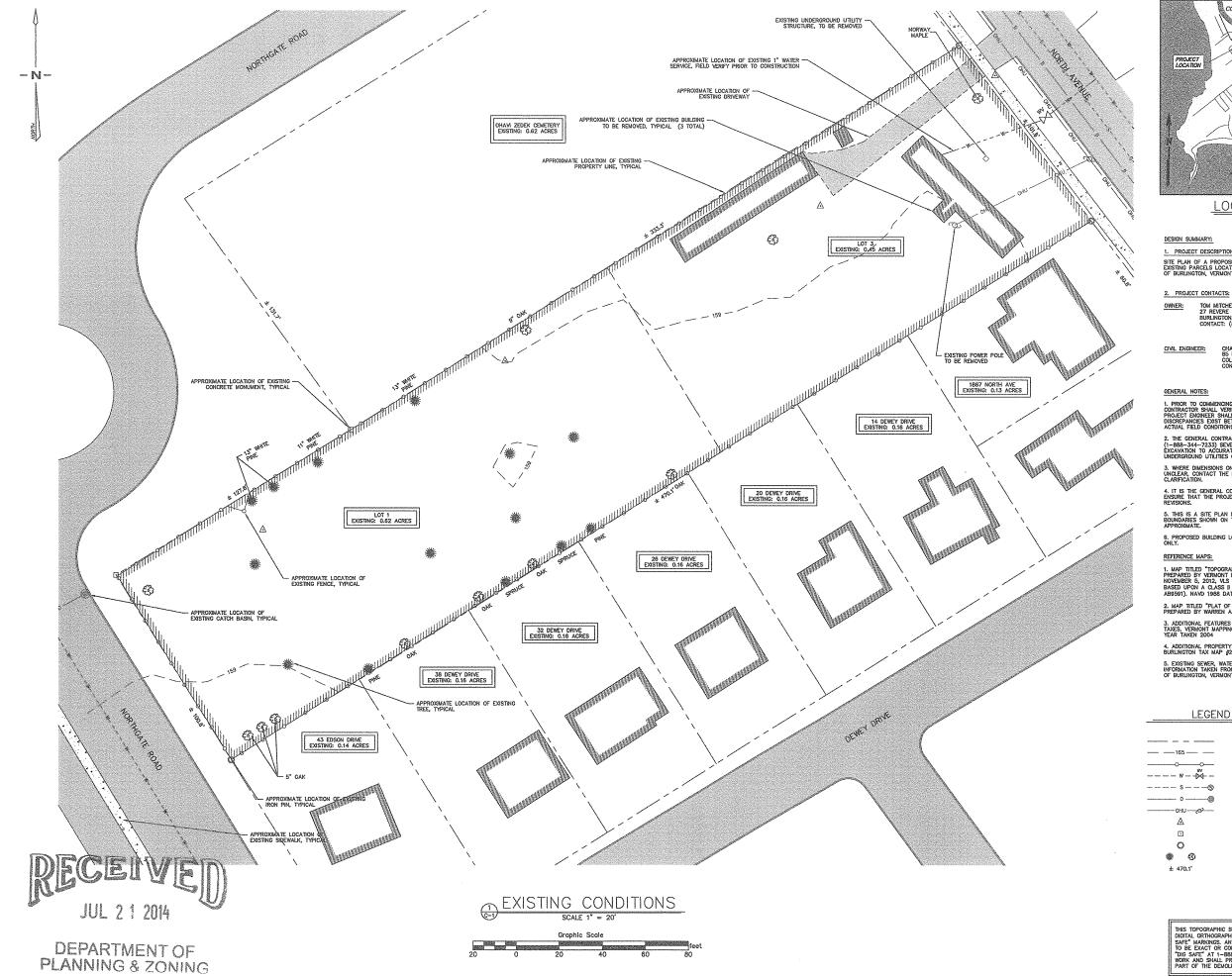
(802) 355-4222

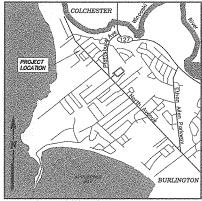
PROJECT ENGINEER

CHAMPLAIN CONSULTING ENGINEERS 85 PRIM ROAD, P.O. BOX 453 COLCHESTER, VERMONT 05446

CONTACT: MARTIN E. COURCELLE, P.E.

(802) 863-8060 (802) 864-1878 FAX





LOCATION MAP

1. PROJECT DESCRIPTION:

SITE PLAN OF A PROPOSED RESIDENTIAL SUBDIVISION OF TWO EXISTING PARCELS LOCATED AT 1891 NORTH AVENUE IN THE CITY OF BURLINGTON, VERMONT.

TOM MITCHELL 27 REVERE COURT BURLINGTON, VERMONT 05405 CONTACT: (802) 355-4222

CHAMPLAIN CONSULTING ENGINEERS 85 PRIM ROAD, P.O. BOX 453 COLCHESTER, VERMONT 05446 CONTACT: MARTIN E COURCELLE, P.E. (802) 863-8060

2. THE GENERAL CONTRACTOR SHALL CONTACT DIG SAFE (1-888-344-7233) SEVENTY TWO HOURS PRIOR TO ANY EXCAVATION TO ACCURATELY ESTABLISH THE LOCATION OF ALL UNDERGROUND UTILITIES ON THE PROJECT SITE.

3. WHERE DIMENSIONS ON THE PROJECT DRAWINGS ARE UNCLEAR, CONTACT THE PROJECT ENGINEER IMMEDIATELY FOR CLARIFICATION.

2. MAP TITLED "PLAT OF SURVEY, MITCHELL PROPERTY", PREPARED BY WARREN A. ROBENSTIEN., DATED AUGUST 8.

	EXISTING PROPERTY LINE
165	EXISTING CONTOUR
	EXISTING FENCE
M	EXISTING WATER LINE & VALVE
s	EXISTING SEWER LINE & MANHOLE
D	EXISTING STORM LINE & CATCH BASIN
	EXISTING OVERHEAD UTILITY LINE & POLE
Δ	SURVEY CONTROL POINT
☺	CONCRETE MONUMENT FOUND
0	IRON PIN FOUND
# €δ	EXISTING TREE TO BE REMOVED

THIS TOPOGRAPHIC SURVEY WAS PRODUCED IN PART FROM DIGITAL ORTHOGRAPHIC FILES WITHOUT THE BENEFIT OF "DIG SAFE" MARKINES. ANY UTILITIES SHOWN ARE NOT WARRANTED TO BE EXACT OR COMPLETE. THE CONTRACTOR SHALL CONTACT DIG SAFE" AT 1 – B88–344–7233 BEFORE COMMENCING ANY WORK AND SHALL PRESERVE EXISTING UTILITIES WHICH ARE NOT PART OF THE CEMOLITION PLANT

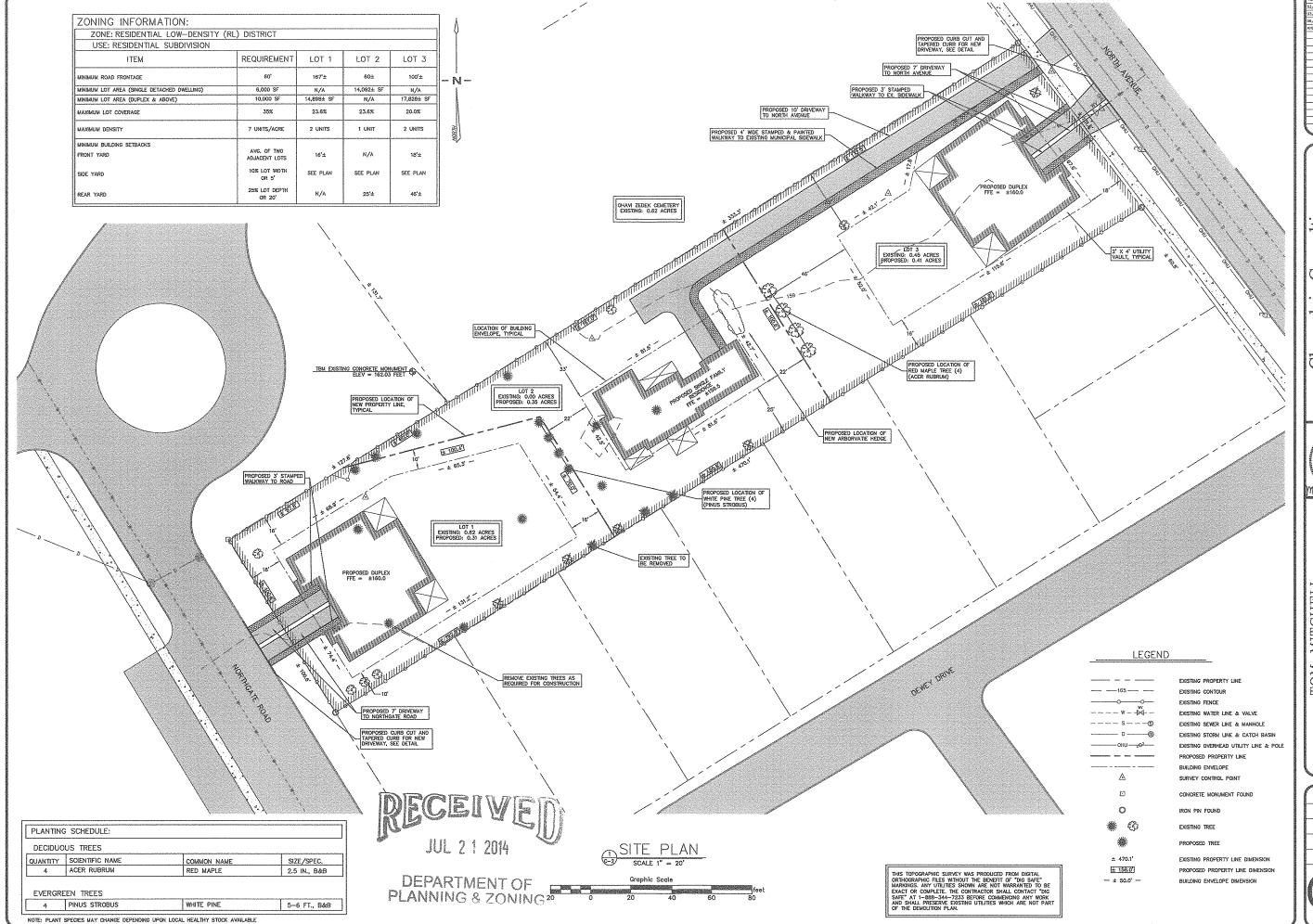
EXISTING PROPERTY LINE DIMENSION

Champlain Consulting
- E N G I N E E R S
- S REIM ROAD, P.O. BOX 453
COLCHESTER, VERMONT 05446
(RU) 863-8606-8678 RAX

NO. 8745 CIVIL

RESIDENTIAL SUBDIVISION 1891 NORTH AVENUE EXISTING CONDITIONS MITCHELL TOM

> CCE CHECKED MEC 1" = 20' 10/31/13 29104



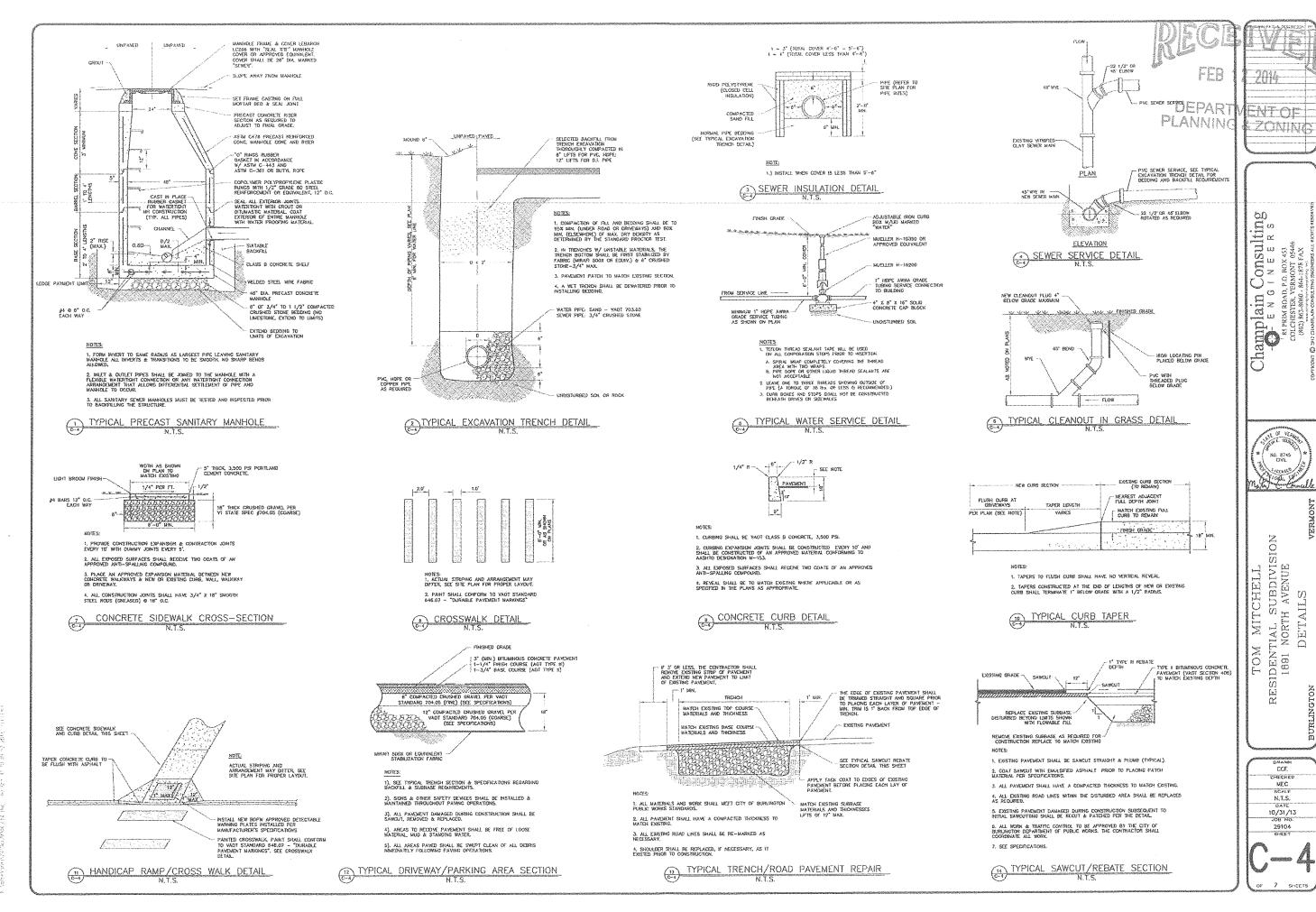
Consulting 3 | N E E R S D. P.O. BOX 453 WERMONT 0546 Champlain Color E N G I N SPRIN ROAD, PO. BY COLCHESTER, VERMON COLCHESTER, SERIE

TOM MITCHELL
RESIDENTIAL SUBDIVISION
1891 NORTH AVENUE
SITE PLAN

CCE MEC SCALE 1" = 20" 10/31/13 JOB NO 29104 SHEET

PLAN RESIDENTIAL SUBDIVISION
1891 NORTH AVENUE
ADING AND UTILITY PL GRADING

CCE MEC 10/31/13 29104



TEMPORARY STABILIZED CONSTRUCTION ENTRANCE DETAIL

CROSS SECTION

2. THE ENTRANCE SHALL BE MAINTAINED BY A CONDITION WHICH WILL PREVENT TRACKING OF SEBMENT ONTO PUBLIC RIGHT-OF-WAYS. THIS MAY RECEIVE PERIODIC TOP DRESSING WITH ADDITIONAL STORM AS COMBINIONS DELAYAD AND REPAIR AND/OR CLEAN-OLD OF ANY MEASURES USED TO THAN SEMBENT, ALL SERBMENT TRACKED, SPALED, OR WASHED ONTO PUBLIC RIGHT-OF-WAYS SHALL BE REMOVED RAMEDIATELY BY THE CONTRACTOR.

1, TO BE USED AT ALL CONSTRUCTION ACCESS POINTS, NO VEHICLES SHALL ACCESS THE SITE WHERE A STABILIZED ENTRANCE IS NOT PROMODED.

1-1/2 TO 3" DIA. CRUSHED STORE PLAN GAUTHER DRIVE

CHANCE CONSTRUCTION FEHCE WITH WOOD POSTS

1, TREE PROTECTION DETAIL TO BE USED ON TREES GREATER THAN JO" IN CAUPER OR OVER 100 YEARS OLD.

TREE PROTECTION DETAIL N.T.S.

SITE RESTORATION N.T.S.

STRAW MULCH - 2 BALES FER 1000 SQ FT APPLY BROKE OR RETTING AS RECIED APPLY BANDER OR NETTING AS NEXTED MAINTENANCE, SHEARING THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CAME AND MAINTENANCE DISCUSSING WATERING, OF SLEDEZ AREA 1987S. THE SLEDING IS INSPECTED AND DISCUSSING WATERING, OF SLEDEZ AREA 1987S. THE SLEDING IS INSPECTED AND SHOULD RECOVER SHEARING THE SLEDEZ AREA 1987S. THE CONTRACTORS SHALL NOTIVE YES DEPOSITED AND ADVANCE WHEN THE SECOND MOWING IS SOSTEMATED.

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LAME - 90 LBS PER 1000 SD FT DOLOMBIC OROLAND LIMESTONE NOT LESS THAN 85% OF THE VOTAL CARE

FIRMUME - 10 LBS PER 1000 SQ FT SPENG SETDING FALL SEEDING

- NEVER OUT LEADER

TREE STAKES - STEEL OR ZER HARDWOOD, 3 PER TREE

- TRUE WHAP SECURED WITH TWINE

INSTALL 3" OF BARK MALCH, MOUND TOPSOR, TO FORM A 4" DEEP SAUCER

- DRIVE STAKE TO 18" BELOW BOTTOM OF THEE PIT

E"-12"

00

THE CENERAL CONTRACTOR SHALL COORDINATE ALL UTILITY HOW MITH LOCAL LITELY PROVIDERS TO BE DETERMINED BY THE COMMER.

UNDERGROUND ELECTRIC

\$ & TELEPHONE CONDUIT TRENCH DETAIL
N.T.S.

SETTING SPECIFICATION

CONSERVATION WEX GRASS SEED
LIBS. LIVE SEED
PER ACRE

TYPE OF SEED

CREEPING RED FESCUE KENTUCKY BLUEGRASS ARBUAL RYE WANTER HARDY, PERENNIAL RYE WATE CLOVER HEGRAND BENT GRASS

36" INN. (45" UNDER BOADWAYS)

TOPSOL 4" MINIMUM APPROVED TOPSON.

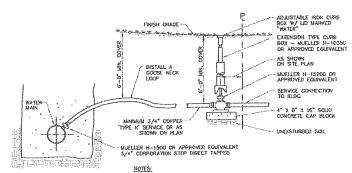
- SERVICE CONNECTION TO BLDG. MUELLER H-1500 OR APPROVED EQUIVALENT 3/4" CORPORATION STOP DISECT TAPPED 1. TEPLON BIREAD SCALANT TAPE WILL BE USED ON AUL COMPORATION STOPS PRIOR TO INSERTION. A SPIRAL WHAP COMPLETELY COVERING THE THREAD AREA WITH TWO MAPS.

B. PIPE DODE OR OTHER LICEND THREAD SEALANTS ARE NOT ACCEPTABLE 2. LEAVE ONE TO THREE THREADS SHOWING CUTSOE OF PIPE (A TORICLE OF 35 LBS OR LESS IS RECOMMENDED.) 3, CORPORATION STOPS SHAUL NOT BE PLACED LESS THAN 1' APART ALONG PEPE.

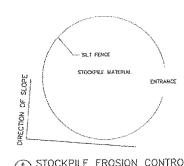
WATER VALVE DETAIL
N.T.S.

4. CORPORATION BOXES AND STOPS SHALL NOT BE CONSTRUCTED BENEATH DRIVES OR SCEWALKS.

3. VALVE ROD AND PINS SHALL BE STAINLESS STED.



- SILT FENCE STOCKPILE WATERIAL STOCKPILE EROSION CONTROL N.T.S.

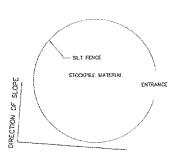


SOIL MIX: 3 FARTS TOPSOIL 1 PART PEAT. 1 PART MANURE

SALL DIAMETER + 18

SHRUB SHALL BEAR SAME RELATIONSHIP TO FRESHED GRADE AS IT BORE TO PREVIOUS EXISTING GRADE

SHRUB PLANTING DETAIL N.T.S.





SILT FENCE DETAIL
N.T.S.

1. SLI FENCE SHALL BE INSTALLED & MAINTAINED DOWNSLOPE OF ALL DISTURBED AREAS & MATERIAL STUCKPILES TO PROTECT UNDISTURBED GRASSED OR LANDSCAPED AREAS, ROADWAYS OR WALKWAYS. 3. END SECTIONS OF FENCE SHALL BE ANGLED UPSLOPE & SHALL EXTEND BEYOND THE DISTURBED AREA SUCH THAT ALL SEDMENT, SLY OR PERROS IS CONTAINED. 4. RESPECTIONS & MAINTENANCE SHALL BE PERFORMED AS REQUIRED UNTIL PERMANENT VEOLITATION IS IN PLACE & THERE IS NO DANGER OF FURTHER EROSION.

HOTES:

SYNTHETIC FILTER FABREC SECURED TO HARDWOOD FOSTS

F2-2014 MENTO PLANNIN

Champlain Consulting
E N G I N E E R S
SPIRIN ROAD, P.D. BOX 453
COLCHESTER, VERMONT 65446
18021 863-8690 - 864-1878 FAX

CCE MEC SCALE N.T.S. 10/31/13 29104 SHEET

TOM MITCHELL
SIDENTIAL SUBDIVISION
1891 NORTH AVENUE
DETAILS

RESI

THE TREE PROTECTION ZONE DISTANCE, DRIP LINE OF TREE OR 10-FEET WHO HEVER IS GREATER

3. THE USE OF CALCUUM CHLORIDE OR WATER MAY BE NECESSARY TO CONTROL OUST DURING THE SAMMER

FILTER FABRIC BETWEEN CRUSHED STONE AND EXISTING GROUND

PLANTING VIXTURE PER SPECIFICATIONS SCARRY BOTTOM AND SIDES OF ROOT BALL 4" DEEP

NOTES

1. STAKE THEES UNDER 3" CAUPER.

2. GUY TREES 3" CALIPER & LARGER.

3. THEE ROOT COLLAR SHALL BEAR SAME RELATION TO FINISHED GRADE AS IT BORE TO PREMOUSLY EXISTING GRADE, EXCEPT IN AREAS OF COMPACTED FELL.

CONTINUES CARLE MARRONG TAPE FINISH GRADE-الدعاد علامات الدعاد عادما

TELEPHONE

POWER CONDUITS

TYPICAL TREE PLANTING DETAIL N.T.S.

- The site about be cleared of all debries and vegetation, and oil topical and be attinged prize to placing says fit material. Debrie and vegetation wholl be disponed of all an appropriate traction.
- 2. The accorded material from an site shall not be used within fire that (\$) of the building as wains polyting lats, roads as elderdale. General important its malletal admit had been great than the latest (\$2") or how more than 200 growing the MD. 200 store. All excess exercised material shall be disposed of at the approved koption.

- congression of rough grading, including assertation, formation of embanisments, shipping, aloging, compactions, construction of stucture, dispense of surprise or unsufficiely motified, and only word, interesting to prepare the public gradies of "rootseque," works and partially areas." Grading and the acceptable for that too of the base causes under prote or uniforced interest and to study in public acceptable of final-study gradies under use suspect only or explainment areas to receive toom short producing, within to prohip draws.
- b. Accomplish of execution and fit within the slope and grade these or indicted on the Growings solvers otherwise authorized is writing by the Canor. Parking into sincid be ground to fit across section which is also-ground solver placed to type of sub-base or powersant except that parties with transferred in permissible where subsequely the meditations of Irelia.
- c. Do not use frozen meteriol in the construction of emburisments
- c. Place of enterwiment materials in notionate layers of uniform thiologue cross the foll width of emiliarhorest, energy short it is preparabled to the property of the control of the control of the control of subtracted by the Coner. On one disks or places sturings, treet, stubble or other convolvation material is endowments. Begin layers of embandment of the desposal port of the fft.
- a. Arous of soft, juicking or otherwise unsultable moderick that will not meet composition resultaniesh shots be removed, replaced with suitable material and grapherly companied at in a cost to the Device.
- Conjugacy completions as the con-cept of the property of the confection of the confection of the con-marks all results in bytes of compected motivate in the consecting 5 facilities. Designed next began as produced before placing cools new large. Use affective compositing. Each type should be kept creamed to their which is con-cepted to the confection of the confection of the con-deger of enhormment can be contributed investigating with the required to quasars anothers density. Construction explanant should be notice once the earlier surface of each layer.
- 4. If, during the construction of the embenisments, there is any indication that serious building, crucking, or unsafe movement may accur, the placing of the shall be stepped or relanded to drive the material is subsitue.
- which he stopped or related to drive the motorial is stability.

 All Sickness and drains shall be constructed to limity all effectively drain the
 reading we powhity foll before any sub-bose or surface courter motorial is
 placed. In honoling materials, tables and element, the Contraction shall
 be sub-injected to the surface of the surface of the sub-injected to a single fracts and form value. If table are formed, the sub-injected to
 be reshipped and composition and of play, sord or writt meta-related
 to reshipped on decomposition and only support or writt meta-related
 to reshipped on the sub-injected on the sub-injected
 the sub-injected with the sub-injected on the sub-injected
 the sub-injected with the sub-injected or surface material small neith and support of the sub-injected
 coperance, housing such and the document of the sub-injected or sub-injected or sub-injected which will distinct the cross section. A tolerance of 1.27 inch shows or below the
 friended sub-injected with the thorough product that this 1.72 inch shows or below the
 friended sub-injected with the thorough product that this 1.72 inch shows or below to
 friended drove section is maintained.

- Beheral Central sell compaction during construction providing minimum percentage of density specified for each spec classification.
- b. Percentage of Massimum Density Requirements. Compact soli to not less than the following percentages of maximum day density for solis which solid is not defined moisture—density relationship determined in accordance with ASTM D 2016.
 - Lows ar unpowed circus. Compact top 6" of sub-grade and each layer of backfill or fill moterial to 90% maximum dry bissoity.
 - books or fit material to 80% maximum dry density.

 Compaction under passes that a stricture areas The entire one of each tager ghat he undersoly acompacted to all feest the required minimum cansify using compaction soughernat consisting or sizters. Compacting or committee on a compaction of a committee of the compacting or communication of the committee of a compacting or committee of the compacting or committee of the compacting or committee of the committee of the compacting or committee of the committee of t
 - 3. Concrete Stobe: Compact each layer of backfill or materies to 95% mitching the density.
- c. Moisture Costroi: Where sub-grodes se layer of soil material must be moleture conditioned before compaction, uniformly apply safes to surface at sub-grode, relayer so and metalized, as prevent fire variet exposerily on surface divining or subsequent to compaction operations. Remove and replace, so scorify and offers, soil motivation but it so well to permit compaction to precified density.

Phase exceptable was enclosed in layers to required subgrade elevation, for both area clearification field below.

- i in exceptions, the polishectory excepted or borrow motorist.
- 2. Under groused creas, use satisfactory encorated or borrow material
- 3. Under wolks and povements, use subjects materials as shown in details.
- b. Specific executations as promptly as work permits, but not until completion of the following
- 7 Testons ranker and recording locations of undercround utilities.

Remove vegetclies, debris, unsollafactory selt meterials, obstructions, and destreamentation from yound verfore prior to placement of fill. How, etc., or break up alogod cortexes alongs than 1 varied to 4 horizontal affects that the metallic self-and the self-and t

a. He still study be pieced within HT of any tree trush without operand at the Course,

E. Access Drive and Parking Lot Area

the authorized shall be prepared in papersones with Section 20312 of the Standard Specifications

2 Sone Horrow and Custrion: VACL 203.0) Social burders and sound consists and consists of material reasonably has from sitt, town, clay, or organic matter it shall be obtained from opproved sources and shall meet the requirements of the billowing tooks as designation of the billowing tooks as well as the province of the billowing tooks as

		Percentage by Weight
Sieva	Elegiptotion 2	Posetry Square West Ster
	1.177	90 - 100
	1/2*	70 + 100
	160 4	60 - 100
	No. 500	0 - 20
	ten 200	Q ~ \$

Unabled Grovet for Sub-bose. All malerials shall be becared from operand accurate. This gover shall consist of subject, and completely shall consist out on the property of the state of th

Greating	Stave Cestynation	Asserting Square Mesh Siev
Coarse	s* No. 2 No. 100 No. 200	58 - 100 75 - 60 6 - 12 0 - 8
Flore	2" 1 1/2" No. 4 No. 100 No. 700	100' 90 - 100 30 - 50 6 - 12 0 - 6

The creshed gravel shot be composited to 95% of the moximum sky density as automitted by AASHD-199.

Compectable, formediately offer the bituminous miniture has been preced, ettack off, and surface respectabilities adjusted, it shad he throughly and uniformly composited by rather, should be minimum the headons satisfied to design become and exceeding of the process of the pr

c Surfaco Televanceer This surface will be texted by the Engineer using a 16-mont attrophistic of solicitic seculions particle with the surface of the solicitic seculion particle with the surface of the solicities of the solicit

A Maching Surfaces: Street is new powered in to make on abbitms alternation presents for a reading, or brain. The Contracts and welfacely present not the existing prevents along a straight line a makemout of one lost (17) that the wisting prevents, cash the existing provided book. The brainfall of the thirty provided book. The brainfall of the thirty provided brain of the provided supports of the provided brain transferred Register, first, just prior to provide.

- Subdirection feasets: Stabilization febric where received by the Engineer shed be strent 500% or approved equal. The fabric shall be firstelled in occasione with smallestering a requirements.

C. Cost-in-place Curbing

All cost-in-place curbing shall be pieced to the lines and grades satabilished in the plants in secondaries with Section 618.05 of the Standard Specifications: "See Ourse "P Concrete (Fc" » 3,300 pair

E. Sanitary Sever

5. Describite: Enter and consists of the aspectation and backfilling required for the routing the graph society assets make, totalities and basistation of service controlland his west write induced of piet, monitoring the properties of a post-induced the properties of the proper

2 Metacota

PVC Samer Pipe: PVL speed pipe shall conform in all respects to the lotest service of ASTM Specifications 01-2034 or 1679. Type PSV Psylvey District (PVL) Seed Pipe on Citizen, NSS 32 Mediations of all PVC pipe shall meet ASTM Specifications for SSR 35 pipe. NS pipe on this time of the Conformation of the PVC pipe shall meet ASTM Specifications for SSR 35 pipe. NS pipe are filtings static be constructed on terminations.

- Manufacturer's Neme ond Trodenors

 Rominal Pipe Size 4" or 6"

 Betand Designation 12/45/C PVC

 Legard "Tipe PSM SSM 35 PVC Seres Fipe" or 12/5 46 PVC Seres Pipe"

 Designation ASTB B-0004 or F61%

Johns shall be positive in late outing stationarity gradest end small conform to AST ID ~2,021.2 The gradest shall be forcely installed the spine shall be forcely installed the spine shall be furnished by nontried 13-foot benefits. Softients commonly of any of the improve of the innorther stations with insights and the innorther stations with the previous of the contribution of the contribution of the contribution of the stationary of the contribution of the con

1. Instatolist

- opprivatel given to communice bedsifting operations.

 The but are not the pine hash to be objected at off times and he proceed in such to position on the made the invent even when the succeeding socition is hereaft. After eventued by the received cynocling contingencing to the same property to the society of the proceeding to the same price. The sile body be presented by sovereign contingence to the solid by presented by sometime on a 15 present any identity, (163X or receive) are obtained by the continue of the continue of the solid process and colorests about the centre of the solid process of the solid process and colorests about the centre of the solid process and colorests which the process of the solid process of the solid process and colorests which the form of the continue of the solid process and colorests which the continue of the solid process and colorests which the color for the solid process. The process are continued on it was public or on the contribute price and of the societies from the contribute prices.
- c. Black®s shall comblet of approved material placed in str-Inch (8") toper with each layer being thoroughly companied in and two than 95 nament of maximum dry density or determined by the AASHTO-T-48 Standard Placktor by means approved by the Englaser.

The stock in backed of the results of the Lightest . If Y demonstrated by the stock in backed of the results of the place. Perfectly preceding the proceeding the total results of the place. Perfectly metabolish is order and the demonstrated and zeronecholen of the book fit entered in arrival and the total results of the stock of

Inverseducity following the gips attention, the spin includation shall be increase with these pressure or . An shall be aboving supplied to the plugged oil: featobytics until the latered oil pressure recovers 4.6 pounds per supplied but injustice than the removance but pressure oil my proundeder that may authorize that the gipt published of the properties of my proundeder that may authorize the gipte. At least 1 for ministee shall allowed the control of the properties of the

The alpheline shed be considered antispipale when lested of an Overage pressure of 2.0 passeds per square such greater than the sweape back pressure of any greatment of the first lines submarged. The place it

I the total rate of oh lose from any section tested in its entirety between manifest observed sinustens does not exceed 2.0 cubic feet per missite; or

the section under test does not have an ot a rate greater than 0.00.00 cubic feet are minute per square feet of internal plan surface.

The requirements of this specification shall be considered satisfied if the time required in security for the pressure to decrease from 3.5 to 2.5 pounds or excure took prestar than the average book present only groundwater that may submitting the pile is not take those that campaids occurring to the observable took or considerable took or the pile is not take those that

MINISTERS TON VARIOUS PER SITES

Stempter (Inches) Time (Seconds/100 Fort)

National feet. This method of tealing menholes for leakage involves the use of a device for sedding the top of the monthis conversation of prompting the area of the membels, creating o viscous and notifying this vaccioum for a prescribed period of time. The procedure for this test is on follows:

- i. At litting holes and exterior joins shall be like and pointed with or approximate home shipship from the transplated manifold his control of the property of the property of the property of the bookilities which be accurred to expose the entire section prior to viocusm testing or little manifold that the letter for factoring by means of the softstation involvage test.
- 8. A plate with an inflatable raidour ring the size of the top of the markers shall be instabled by inflating the ring with or to pressure adequate to present instage of at between the rubble ring and the manufact exist.
- h, At small them be pumped out of the monhole through no opening to the pietr unit of women is meeted higher of the mechale equal to 10 behave of meeting so on copyrind vaccining going. The removal of of whall then he stopped and the heal begun.
- v. The manhole shoti pose this test if the vession holds at 10° Hg ar drops no lover than \$° 14g within the following times:

Dapits of 4" Discretes Monthsia	Threso: Missutes	Second
0' - 10' 10' - 15'	2 2	6 20 0
15° - 26'	3	20

- of, After the montrols passes the vercion feet, il sholl be backfilled screduly as that he feets are credital. If the montrols is declared to the control of the montrols in the control of the control of the control of the wooder test, the Controls shall less the marked early the market existing to the control of the control of the market existing to the control of the control of the market existing to the control of the control of the control of the market existing to the control of the control of the control of the market existing to the control of the contro

- The Contractor shall be responsible for earlights the facultan one maintaining the integrity of all utilities statem on the plan.

SECTION 01340 - SIKP DRAWNGS, PRODUCT DATA, AND SAWYLES

FARI 1 - CONCRAC

1 ST SESCRIPTION OF WORK A Subrall Ship Decrings, Freduct Data, and Samples required by the Costnets Epophismits 1.02 ROLATED DOCUMENTS

A The Conditions of the Contract and Contract Requirements of the Contract Documents apply to the General Contractor, Sobcontractors, materials supplies and of other persons furnishing letter and entering materials and the Sobcontractors.

A Drowings shall be presented in a dear unit through minimal

Details and be identified by reference to sheet & detail
or schedule about an Contract Drowings.

the propert hats

S. Danielochom's attendent actionable deprings and dispersion

Modify develops and diagrams to deinfe interrution which is not opposible to the 1964.
 Supplement attracted information to provide information specifically applicable to the 1964.

A. Office acrostes shall be of sufficient size and quantity to short Sustrates

Functional characteristics of the product, with integrally related parts and attornment devices.
 Full samps of calor, texture and pottern.

1.96 CONTRACTOR RESPONSIBILITIES

A Review Shop Drawings. Product Date, and Samples prior to submission.

Field managements
 Field construction criteria.
 Conferg runniers and similar data
 Confergraphy with specifications.

C. Coordinate worth submitted with requirements at the Work and of the Contract Decuments.

A Hornton of manufact required

Shep Drowings: Natural the number of openies reproductions which the Contractor requires, plus three capies, which will be retrieved by the Engines.
 She Shep and the Contractor capies which will be retrieved requires, plus two capies, which will be reclaimed by the Legisleer.
 Semples: Sainer's the number seated in soon individual specifications receive, or on operativate for testics and opproved.

C. SusuriAtus aton contoin

3. The date of submission and the dates of any previous

subministry

The Project this and number.

Control Hemilitation

Control Hemilitation

Control

Supplied

Supplied number. 6. Field diripretons, clearly Identified as such. 7. Reletion to adjacent or artical tectures of the Work or

moteriale. S. Applicable attradante, such as ASTR or Federal Specification 8. Applicable stordards, such as dated at elegan operational models and the stordard processing the substitute of the substitute with representation of products, flast measurements and field construction of products, flast measurements and field construction orders, and considerable of the following the substitute with requirements of the field one Control of the State of State of State of the State of the State of State of State of the State of St

1.08 RESUBMISSION REQUIREMENTS

A blake any corrections or changes in the submittels required by the Engineer and resubmit units approved.

B. Shop Denwings and Product Data:

Revice bibliof throwings or date, one resultant as specified for the initial expansion.
 Indicate day changes wighth have been made other than those requested by the Engineer.

G. Samples: Submit new complex as required for initial submittal 1.09 DISTRIBUTION

A. Distribute reproductions of Shop Drowings and copies of Product Doto which corry the Engineer atoms of operavol to:

Distribute samples which carry the Engineer storag of approvis os directed by the Engineer.

1.10 ENGINEER DATES A Review submittels with reasonable prompthess and in accord with the established project schedule.

8. Affic review stamp and initials or signature, and indicate requirements for resummitted or approval of submitted.

C. Return submitted to the Contractor for distribution, or for resubmistration.

SECTION 02220 - DEMOLITION CONTROL

A. The Conditions of the Contract and Canaras Respirements of the Contract Decements upply to the Senioral Contractor, Subcentractors, misterials supplier and all other persons furnishing labor and metadats under this Sertion.

1.02 DESCRIPTION OF WORK

A liter's included: Provide oil inside, materials, equipment and incidentals necessary to occumplish the required building and the site demosition in bullented on the Contract Dominants.

8. Responsibility: Openalities - Remove: All work as indicated on the Compact Documents, lecturing the following:

C. Michish dust—free atmosphere during demolition and construction phoses of this work. It will be the reasonability of the Confector to device methods and construct proper barriers to melation such conditions. Method of assecution shall be revised and approved by the Comer and/or Engineer.

 Ω . Adequate precessions shall be taken to protect at personnel and the Classe's projectly during the progress of the Work.

E Methods and achesiving of work shot be approved by the Gener betwee assecution. Coursinate on work with other Contractors.

F. Any items of volue scheduled for removal shall not feate the premises until the Owner has directed for their storage or their apprised of War's schange value and has accepted both value to be credited to the Confroct behaven Owner and General Confroction.

PART 5 - EXECUTION



2 2014 DEPAR

O.O

Consulting S + N E E R S O, P.O. BOX 433 VERMONT 05446

MAIN COAD, P Nample Education

NO. 8745 CIVIL Maria Condi

TOM MITCHELL
IDENTIAL SUBDIVISION
191 NORTH AVENUE
SPECIFICATIONS ESIDEN 1891 S T

a

CCE CHECKED NONE. 10/31/13 29104

SHEET

1. MOPE PMC Plac. Pips shall be HOPE mothered boding a ministrum majorial designation code of PE 4700 or PE 3505. The motional state most be registrated as CAS B to 1350 on this shall have a ministrum code classification of PE445446 for PE 4710 and PE33590C by PE 3505 is coldition, the class state be listed as immediate place 15. The pipe shall most be requirements of ARMA CSO1, Ministrum size. 3/4*.

Fitting: Fittings sitult be made from motivated mostling the name respirements on the pipe. Iffilings shot for femicaled by the monandacturer of the pipe. Inthings shot more this appropriate Almah showbard for the after knowled and shot be Pressure Closs 160.

3. Video Box: Cost fron New Disclored style after-type, the conditions—content men (5.3/4*) shaft, 5 bith by 6 foot, Tested per NEPA 22. Cover abus his cost front marked "NATER" and instructing direction of coming

3. Prateintion

All pipe and fittings shall be inspected and tested in paperhitme with the manufacture is appointations and the observations ANNA that is a proper shall be a supported by the pipe analysis of the pipe analysis are partially as a partial property of the pipe analysis are partially as a partial property of the pipe analysis of the p

2. Figs. Nithings, and occasionises shall be conshiply handled to exist attacks. Indeed, to the date of acceptance of the project work by the bed defected only the classification on the project work by the defective of only time, broading other hatderlying, at no prepares to the Owner. All infrintalism and leasting small be done in occasional with ASMM Schandows (Edde-20) and ASS Specifications. ATI 1.

3. All plot showing cracks which to rejected. If cracks occur is the pipe, the Contractor may, at the can expecte and with the opprove of the Engineer, cut off the strucked perfections of a paint at feast 12 whomas them washed into an other cracks and use the accord protein of the pipe.

A. All plays and fittings show be classred of all foreign marker and debris prior to historiation and which he kept chain until the time of occupational by the Comba.

At all thinbs, when the plue laying is not occusity in progress, the open saiss of the pipe and is educed by temporary sudstripint plage or the yolter approach seems. If water is in the check when you've present execution is nate in the tench when you've he reasured, the play shall not be randowed until oil danger oil saids while play the places. The page said the haplands on therefore the out the said play and the haplands on therefore the out the saids be within the finite apactified by the manufacturer.

6. All piping and appurtenences connected to the equipment small be supported as that no strate, will be imposed on this equipment. (If the equipment impossibilities a specifications isclude that piping foods are not to be transferred, the Contractor shall submit cartification of conspictors.)

7. A michaem 16 inch weited approise between the ealaste give authors shall be mobilished where force modes cross to the mobile. Force and the mobilished where force modes cross the mobile force length of note pipe centred on the force mobile as both each glotte are commissions apportion from the force moh. Special shruckural support for the substructural support.

8. There shall be no physical connection between the distribution system and any plans, puriple, hydronts, or tanks which are supplied or may be supplied with a water that is, or may be contaminated.

9. All transhing salety atomiseds about to in conformance with all applicable State and Federal publishings and as appellished on the plans.

the the Contractor shall, of all times, keep the breezhou settingly tree of work until all work is followed and trenches are ready for backfling.

11, Volve bases are to be installed on all buried values. The boxes shall be cost from with a mishrum 5.1/4 fallowed and long amough to asstrated from the value to findnined groups. This boxes shell encloses the operating rult and stiffing box of the levient. Value bases shall not turnate loads cost fire value.

12. Orion leaston of the water sensice shall be consulted only situal the sensitive has been flushed and a deep about it delicated as determined by the England. All defaultation terting shall be done by an independent blind party approved by the England.

Des Contracter sius fatnish bil laber, equipment, motoride, and tools necessary to discisent the gipe and appartendance in occurrience with the AMMA Standard for Blashfecting Worker Mahrs (25%-26 (toblet method not

The mested of debrication shall be by the sanithmost feed method to the property of the proper

13. The Confroctor shot hamist of groupes, toelling plugs, cope, une of other necessary equipment and taken to perform a pressure steat. All pressure is tested to be on hipporteed third porty opproved by the Engineer can the Experiment of Public Works. The Entirector shot develop and monitor for the Money, 200 percent (150M) of the working develop and monitoring for the Money, 200 percent (150M) of the working formula to the Conference of t



5 = Longth of Pips Teeled (1)
L = Allowable Lackage (Data/18)
B = Nomines Dismeter of Pips (6)
P = Average lest Frances (ps)
N = Namber of Johis in the Pipsins Teates

All testing and be conducted in occordance with AWWA CROD-93 latest

14. If there is an orea where a cover of five teet (3') corned be midulating over the water line, the Contractor what notify the Engineer (in writing) for a revised design. 15. All revisions orifecting the water line must be upproved by the Department of Environmental Conservation. — Water Surgely Division, An-Bolt plans when he provided to the Water Surgely Division and City of Burklagton Department of Plantic Works.

EROSION PREVENTION & SEDIMENT CONTROL

4. General Medica

The Contractor shall construct and maintain all procion measures in accordance with the "Vennut Standards & Specifications for Erosian Prevention & Sectionent Contral Latest Batter and Oily of Burlington Public Bods Standards and Specifications

B Construction Sequence

The Contractor when to responsible for establishing all another control measures deliberates on the plans and any additional measures that one incleasary to minimize smaller. The Composter saids have evalue control materials and installation equipment on site at all times.

SN Ances show to historied glong the base of any SN stopies, assured absoluted material and ancest the limits of the project incotton. This wroll mentals in procural the project sits Almo bean studied.

3. Control does through the application of calcium shiprice or water.

Exampled material from earth expression and datah digging shall be disposed of offelte or used for project 10 material of determined multiple by the Chemi's Representative.

5. All temporary existion control investines required for any proposed white work shot he histories prior to October 1. These inconverse when he in place prior to the commencements of any elevant or such manying.

C. Temporary Measures

1. Sit Fember — The bill teneze shall be constructed in accordance with the construction debts. The femile shall igneratily be placed 10 feet from the toe of the stack or or sharen on the place. The ends of the feace shall be placed upblift to fatte, a horsestice shape to trop of runoif.

The allt fances shall be inspected perturbinity for domining or build-up at endiments. All domininged fences shall be repotent or replaced. Skelment deposits shall be reasonable than the fence as they build up tank he placed in on area where there is no duringer of further erosion.

Excelor Matting - Erosion matting and) he placed on all gross-lines awares with profile grades exceeding 3.0% and state he placed and incombines in occurrance with the Verment Agency of Transportables Statedard Specifications Sections 804 and 201.07.

5. Don't Control — During prenetraction, short with the exercipation with water distributed by a truck—meanited spring for. At the description of the Engineer, Concurs Chimids AAS-NTO 19 144 or Sodium Chiclels in 1-3 may be used.

4. All situatede motariol (tupsod, borrow, etc.) will have a sit fence constructed crowed the perimeter. Seed and match stackpile mutatrial as soon or possible to prevaid soci enablem and adjantation off site. Locate electricises so the upril side of the attentive over, in possible. During windy constitution, stockpites no intelled which be covered or watere appropriately to provaid wind residents.

5. Suppose greatize than 1:3 shall have exposion control neithing installed to atophize the stopic and recurse the secosion potential, install neithing over smiddled stopes so that all parts are in control with the soil and model. Pile neithing with whe stappes II test act to ensure 3.0 bonding with woll surface.

D. Permovent Georgine

Grass Lined Searce — All seales that are not stone-lined shell be topoolised, sended, fertifited and modelmed. Any area which shows alone at erosion shall be resended immediately and modelationed with permanent registration. Excitablishmen.

Restoration — As seen as construction to completes in a given cross, it shall be topopolisis, seeded, fartificed and mulched.

The topsek short be submitted to the Eutenstein Service to codysts. Forbitres whethe oppined of approximately a rate of 400 pseudo per sear depending on set outgoing it mechanism. When short be applied to the topsek to produce a set perfectly ξ .0.

operamentary 6.0. After the following and both been established and list facilities spread, plant the specific seed inflative and sone foreign that the soil. Apply seed on the prepartie seed that this topical completion of the dependent of the properties of the dependent of the contraction of the dependent of the contraction of the dependent of the dependent of the dependent of seeds plantage and the dependent of the dependent

After sweding, multiti shall be applied at a rate of 2 laws per none.

If the to the project exhedule, construction during the white months is necessary, the contractor shall hallow the winter construction procedures outlined in the Yermout Handbook In Soil Linston and Sedimont Control on Construction Sites²

a. Minimize disturbance between Detabas and May

ts. All argainst control measures shall be in place prior to the around freezing.

c. Mulch shull be appried to all phatesbad area at a rate of 50 pocuses per 1,000 equies feet. The Contractor shull materials of onese, their one mulched unit permanent inspections used to established.

F. Wohlenswer, Garrantee and Adceptures

The Controctor shall be empowed to the user one meintenance including watering
of averded create, until the executing is imported and accepted by the Contro.

2. Reveryding shall be cone until all crops are completely reviewed with a mature should all groce. An easy label be considered covered when the entire surface confoins or predeminantly weath shall be placed up. Rive groded, fettless and markets predeminating wasted what be placed up. Rive groded, fettless and predeminating place and predeminating place.

3. The contractor shall maintain and guirantee all peeded ereas with acceptance by the perior.

10PS08.

A. A minimum 4" layer of topsoft shall be distributed and five grades on of cross that are designated for just establishment or planting.

II. Toyand sholl be of rictine and attackplied on arise or from will local absence and screened to persist a substack, indice, septicable considering that all promotes healthy, stopicous, and the septical substack in the septical substack and the substack indices to ensure that the bassack is the of rishes, abolish, building nationalists, roots, alteres trapes than 1/4" in dismester, burst, weeds, asslated herbicides and any other matter's that would be destinated to the position of the second promoter to the section of the second based.

(i. topsek shalls be tire, in porticular, of quantigrass relations (Agropyton repeats) and the not-tiles lubers of not gross (Cypanis seculentus analyse other local send seeds selding may permitted during or either lott gross sections and extendiment. If a particular hardicide has been or is used on the topsek, the condescape controller shall assume responsibility to olivately for the prepar disposition of such stateonia. Naticides or other text motorics prior to the placement of logical or the site, and so as to not effect priori satisficialment or growth.

E. In calciditating the proper medium for turf gross and plant establishment, the bordscape contractor shall ensure that the proper pir of between 6 and 7 is present for the Health and mobilenance of the furf gross and plants to be institute.

F. A supplemental additive to the legach for establishing the proper pit and for plenting pits and errors to provide a sulfatile growing medium for trees, shrinks and ground covery with the employed on encosory of the Codifies shall be an organic amonged. Natri-figuralise or equal on supplied by Vermont Return's Applications Products, Footo St., Usfolkstury, VI (607—808—1137) or ensities vendor. The continued the organic composit shall be 1-3/22 introgen IX phosphorus, VX potential and the service of the organic composit shall be 1-3/22 introgen multiplied studge and be becaused in the service of supplications.

PLOWABLE FILL

over 1 ... Extremes

LOS SECTION INCOSES:

A Flowable Bi forment stabilized backful

1.02 RELATED SECTIONS A. Seneral Specifications

N. Cost-to-Flore Contrate

1 C3 SLEWITTALS A. Submitt the following in occardance with Section OLESS, Submitted Proceedings.

t. Provide dealor mixes and lest reports

2. Botch Hickets.

II. We use of twenties the creeks or sojecent to stilling these or structures shall be revised and approved by the City of Burlington Fulfic Works Department.

1.05 QUALITY ASSURANCE

A. When work or portloss of work of this section are compreted and require testing, notify the Engineer.

Desire of required east—in-place concrete, emberonant Hears, and utility work has been templeted prior to placing family dis

PART 2 - PRODUCTS

2.01 WATERWALS

Provide moterials and construction requirements for Florable FM conforming to Vermant Agency of Pronsportation Standard Scientific No.

2.07 FLOWARLE FILL

A. Mix and active flowship fit in occurdance with ASTM CS4.

B. the occelerating administrate in acid weather any when approved by the Engineer. Use of administrate will not solve cold weather placement requirements.

C. Use set retording admissions during not venture skily sites oppresent by the Empireum.

O. Do sot use seldent chloride as an admisture

E. Add ob-entroling opens if regulard to produce a flexible

PART 3 - EXECUTION

3.BI EXAMPLATION

A Yerify that of itsens of rust-in-place concrete, grading, translating, one all utilities and other embedded items one in place prior to placing scenable 88.

Remails to chait not be used as a substitute for send bedding an earth bothell for primary utilities unless approved by the City of Burkington Public Works Department.

3.02 PREPARATION

A. Remove of loose material from the uneven toll and the concrete structures.

Set devotion marks at otherwise determine the proper top staustion for the Ecologie St.

3.03 PLACEMENT OF FLOWARIE FRE

A, habity the Engineer a minimum of 24 hours prior to placement of Execution III.

Flowable fill may be placed by direct stacharge from the truck, by pumping, or by other approved methods.

C. The disrebble ISI about the placed in a surflam manner that all prevent wolds a segregation of the bedding and litting miterial it required, the Esmobile ISI about the consolidated with internal wheelers.

E. Flowoble 198 shall be brought up traiterinty to the 198 the serious, on the pions. Formed wate or other buildreads ahad be anatywated to witherland the arrive's hydrostatic pressure and confine the materials within a declarate space.

F. Pipogement of flowable 58 shall start only stron weather conditions are towarded. The temperature shall be at least 30 degrees F and rising. Flowable 69 shall not be placed as thaten ground or start 11 to talking.

3.04 CURING AND PROTECTION

A immediately ofter placement, protect because its from premature argue, exceedingly had a cold temperaturer and mechanical shape.

B. The Reveale fill shall not be authorized to load and shall remain undisturbed by construction collection for all load 24 bears often precented.

A Teaths of Roseble NII is not necessarily required. If heating is requested by the Owner II shall be in excendance with the appropriate Specification.

Provide probatracted occess to early and exoperate with associated firm.

A DE EXPECTIVE PLOWARE FILL

A be not occupt or place defected bowelle by that is not in conformance with acceptance criteria. Return the best flowable fill to the supplier.

B Defective flowable fit is somble to moving extensive benegicard, embedded detail, higher than movimum the property of the pr

TOPSOIL SPECIFICATION

A. Use suitable topsoil previously stockpilled on the site. Amend stockpilled silt subsoil with sand and angain material as necessary to create additional topsoil. Furnish any additional topsoil from off-site sources

8. Topisis, whether stripper from site, omended on site, or supplied from officials, shield be a sonely foun of defined by the USDA Soil Conservation Service Soil Consellection System, and conforming to the following:

2. 95% of topset passing a 2.0 mm stave.

3. Free of stones 1 in. in longest dimension, south clods, plant parts, and debris.

4. Deposite routies contact equal to 4 to 12% of lotal dry weight.

C. Topsoil shall have a pir value range at 6.0 to 6.5.

If planting sos mixture soes not fell within the required pit runge, limbstone or clumbours solice shall be added to bring the pit within the specified britt.

2. If get to below desired level gold ground limestons. If pH to obove desired level old cluminum sulfate.

PLANTING NOTES

1. No planting will be installed until all grading and construction has been completed in immediate area

2. Contractor to verify all utilities on property and to protect all utilities during excavation.

 If there is a discrepancy between the number of plants shown on the plan and the number of plants afrown in the plant list, the number of plants shown on the plan will sake procedures. 4. All container material to be grown in container a minimum of 6 months.

All material shall comply with the latest edition of the forestion alondord for nursery stock. American Resociation of Nurserymen.

6 Contractor shell report all starrages to properly from planting operations at no cost to the owner.

7. Contractor shell guarantee new picest material through were colored or year from time of provisional acceptance All proposed plants shall be located corefully as shown on the plane and the placement shall be approved by the corner.

At tisturbed areas not to be pered or planted shot be found and seeded as shown, See specifications for soil proporation and seed mis.

Weapping material shall be liral quality, beary waterprisof crepe paper manufactured for this purpose. You of trees planted. Trees shall be wrapped during period from 9/15-12/1.

Two inch (2") deep, finely shredded bork mulch will be instanted upder all trees and shrubs that are isolated from ground cover areas and general shrub mosses.

Soli mili: 1/3 pool moos, 1/3 screened loom, 1/3 dehydrated manure
 Maintoin all plantings through 1 year quorantes period, including watering

2-2014 DEPAR PLANNIN

MENTOF **l**ezovik

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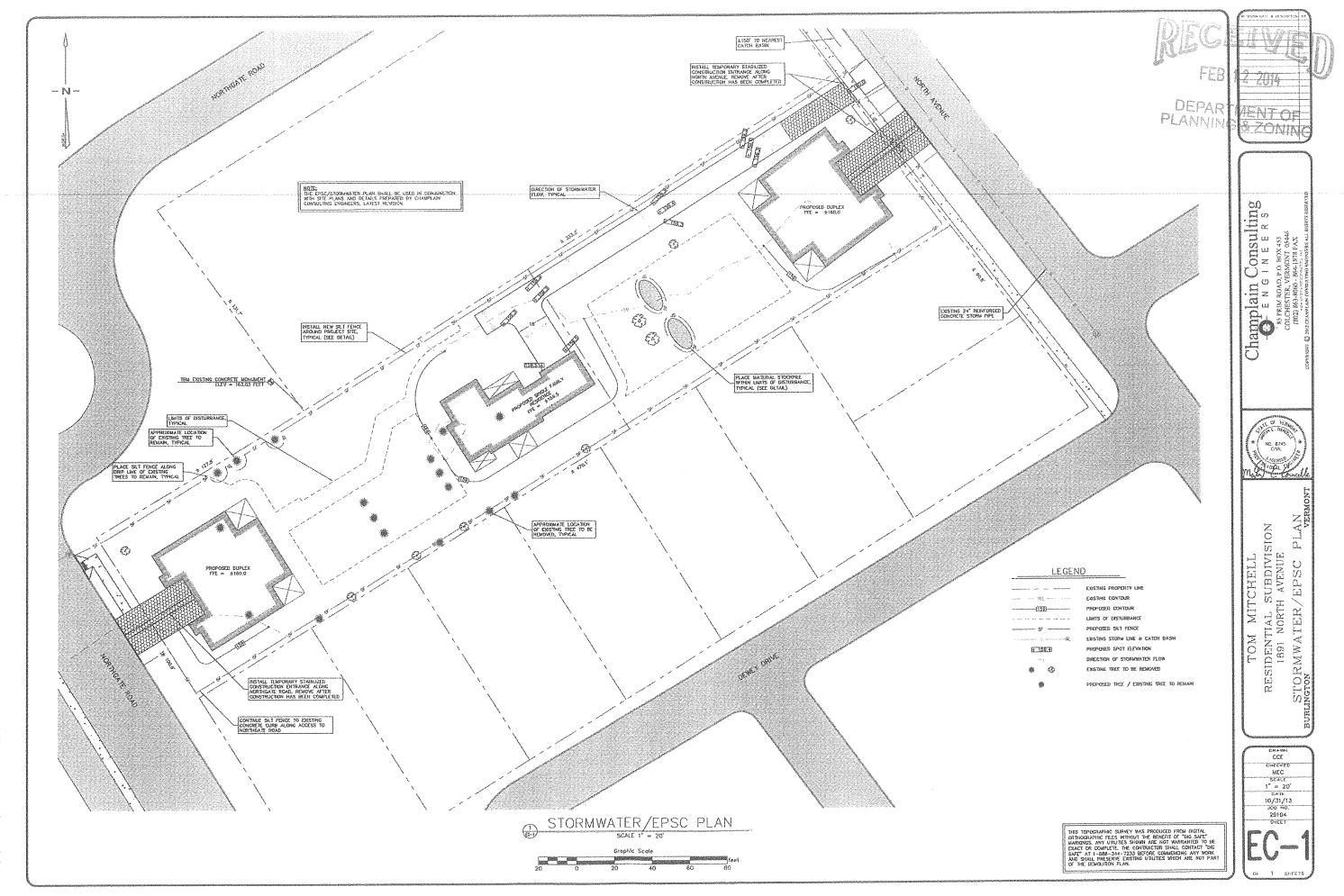
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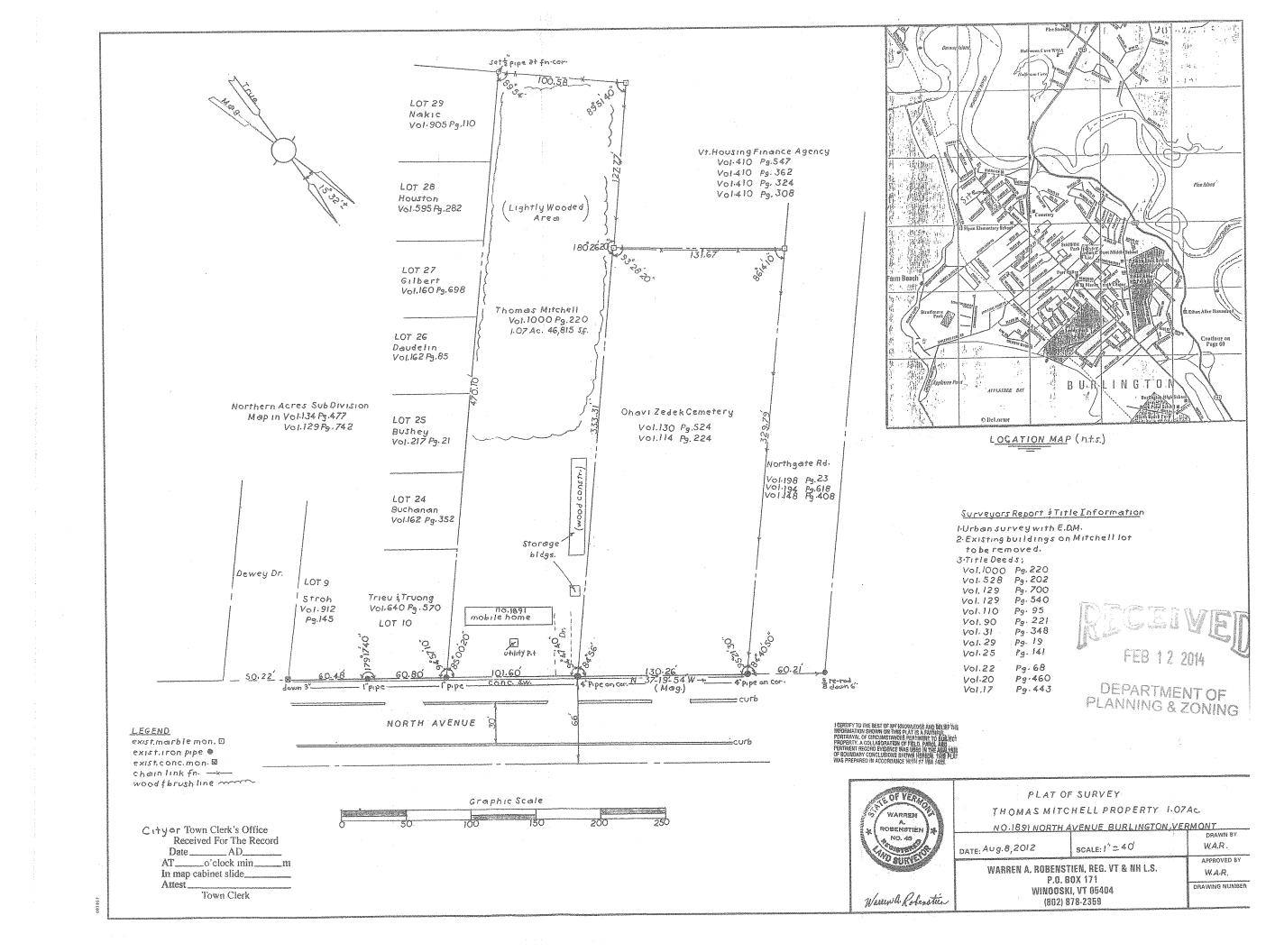


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ESIDENTIAL SUBDIVISION
1891 NORTH AVE RE

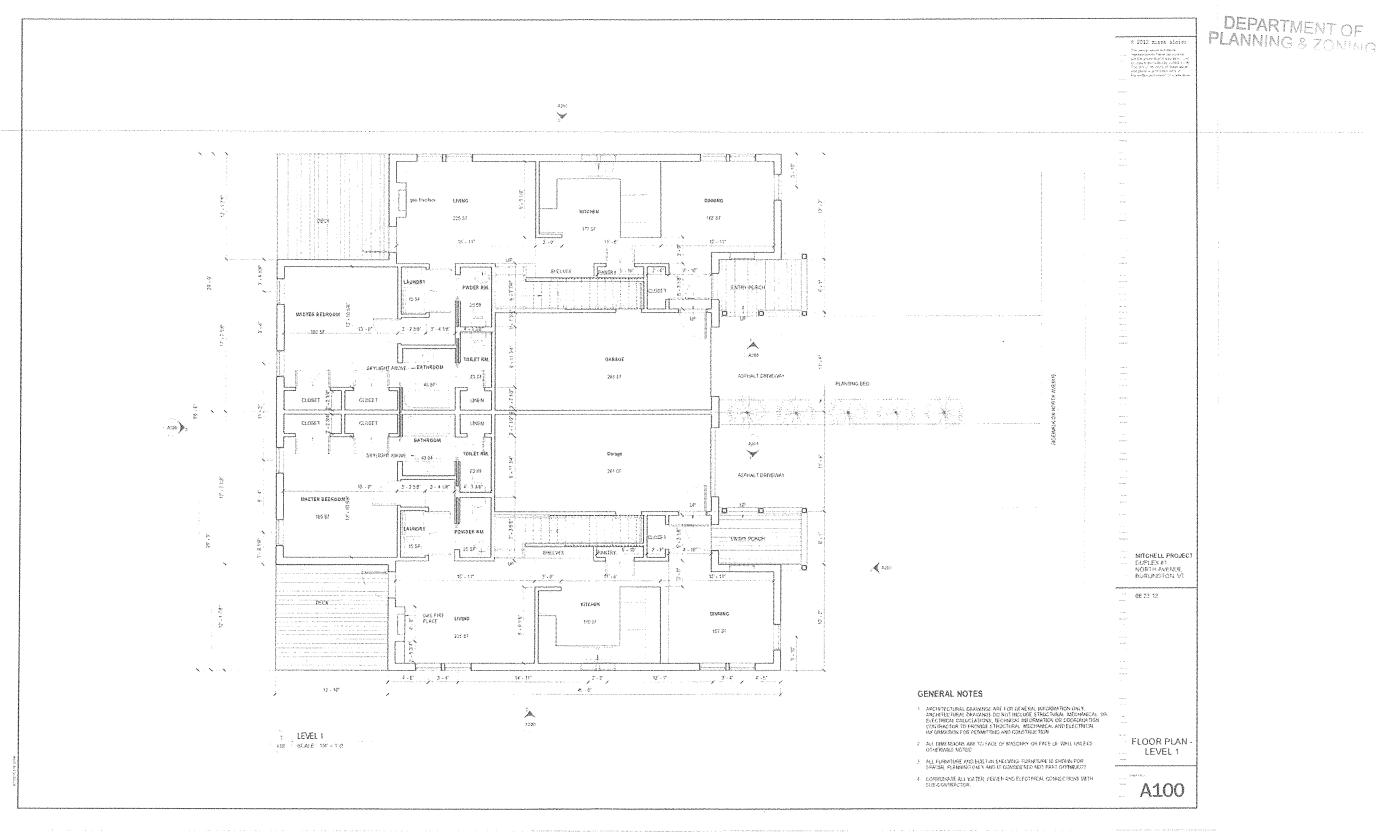
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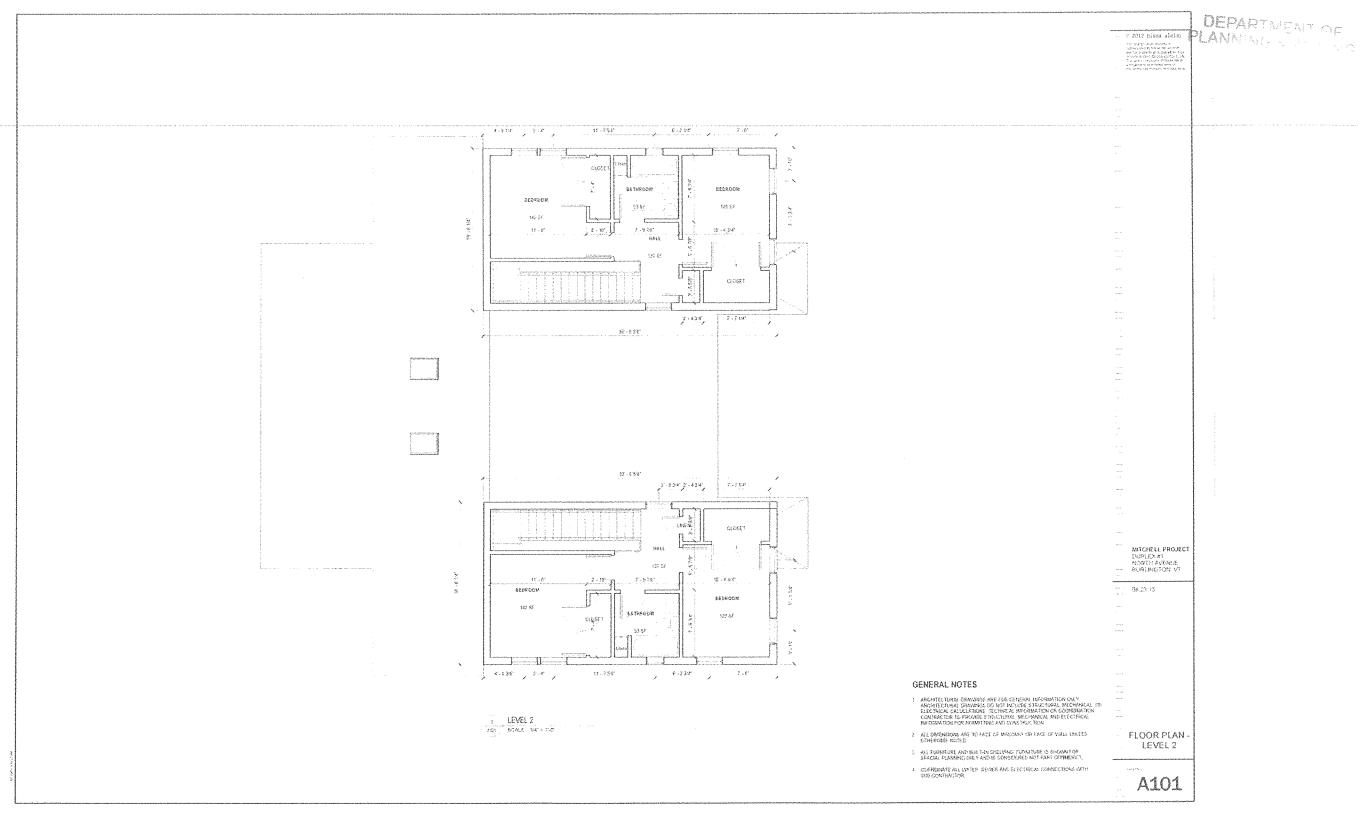
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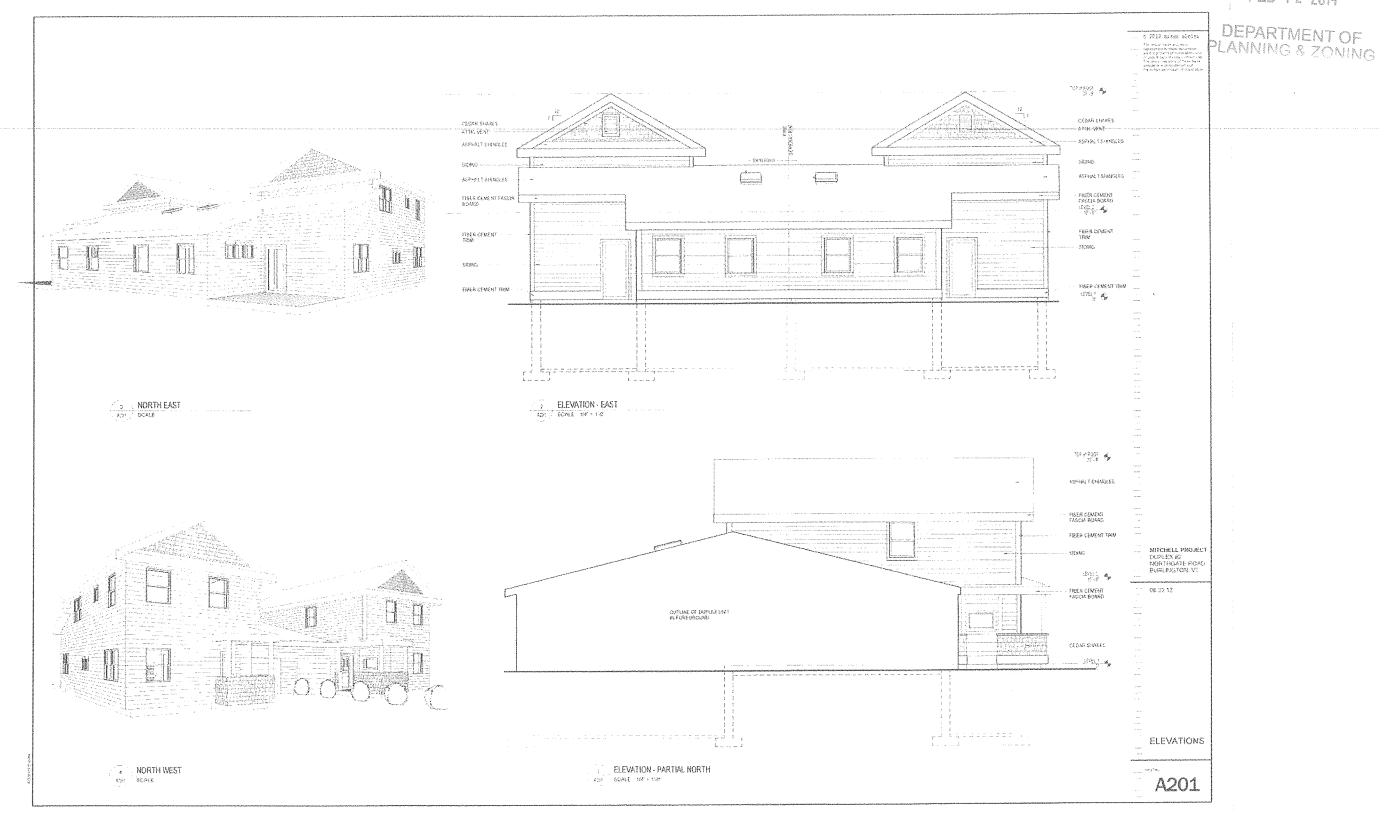






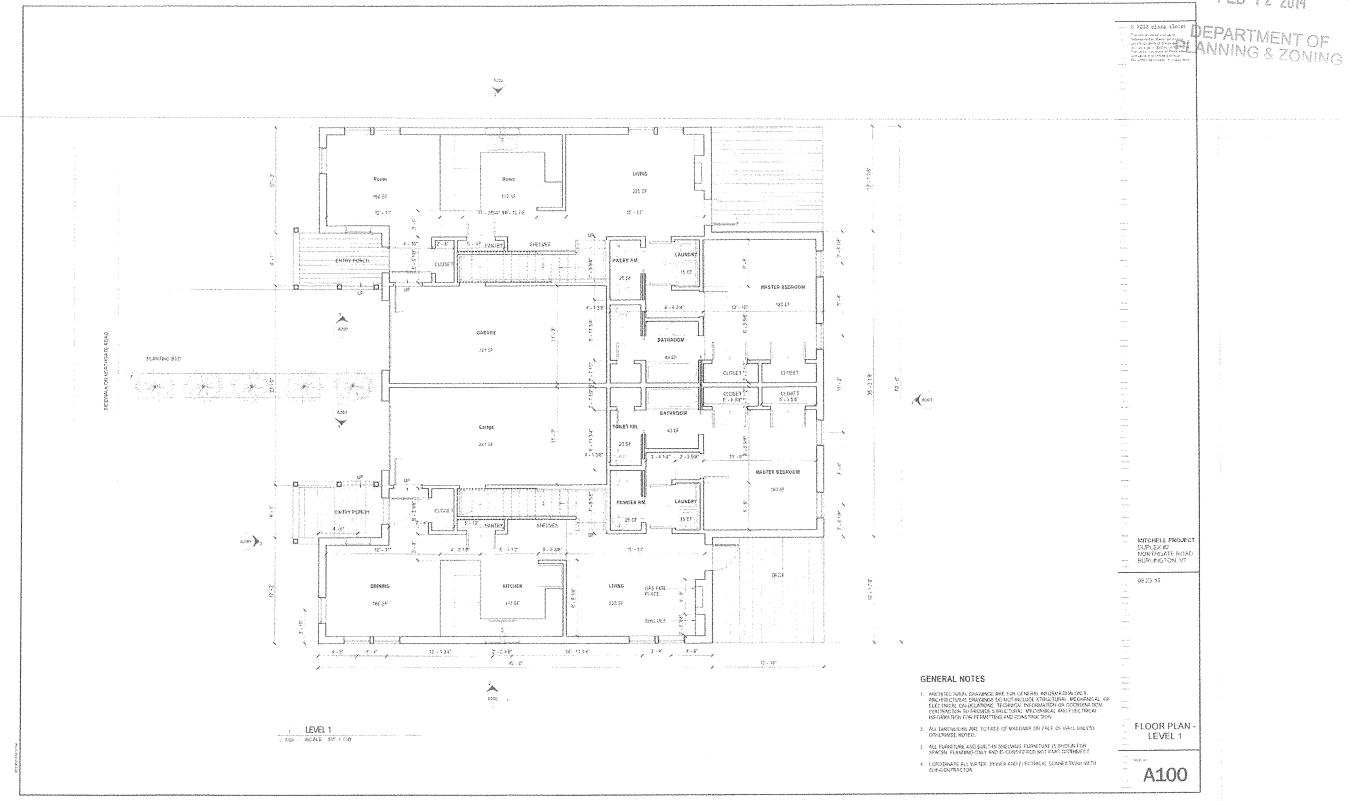


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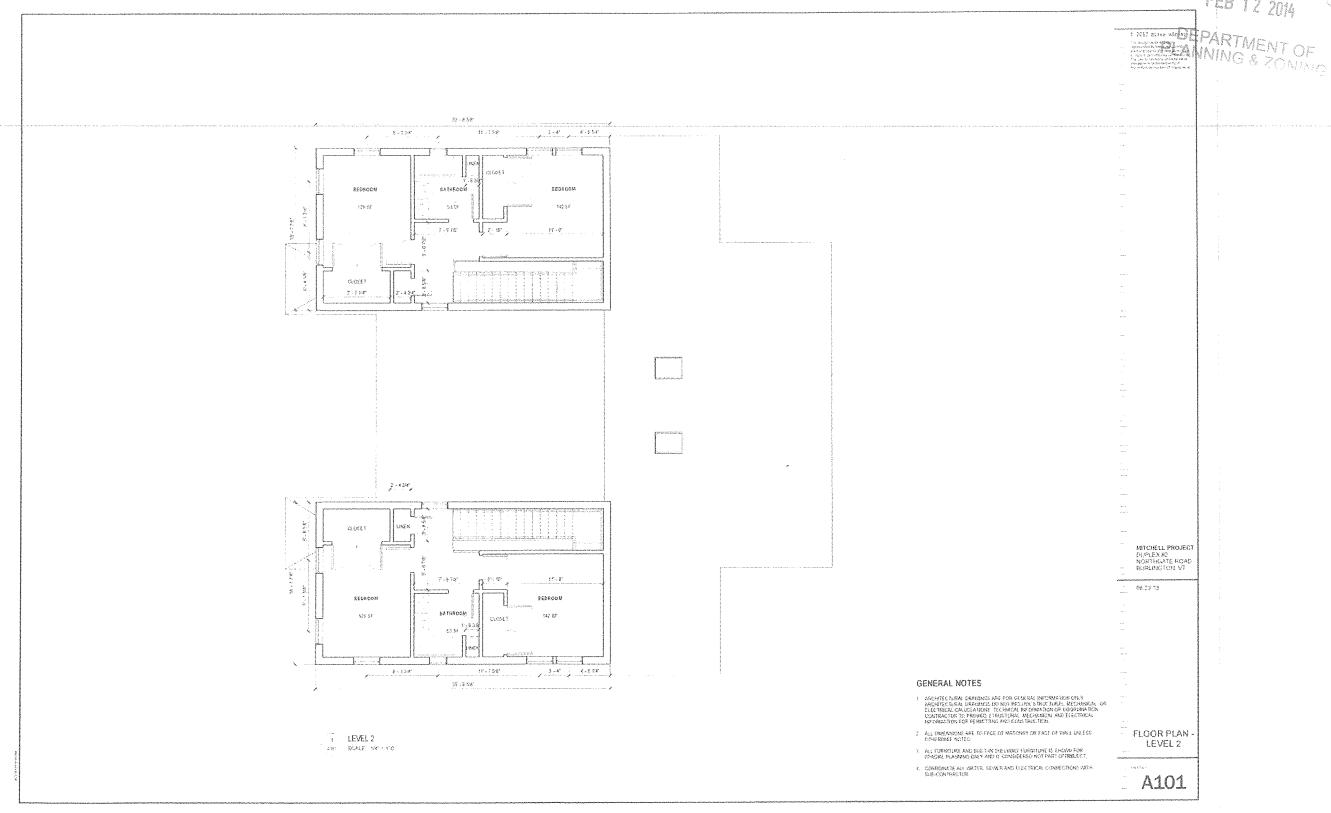


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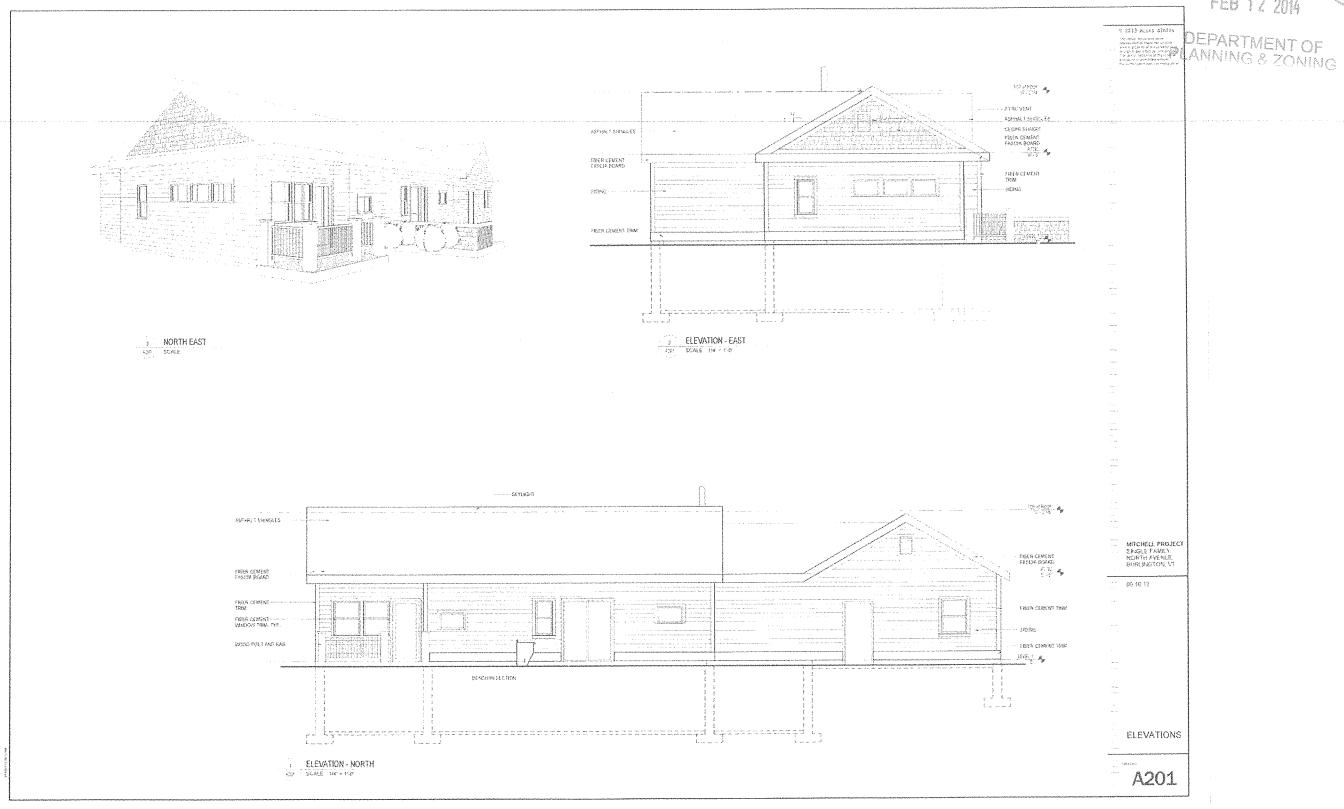




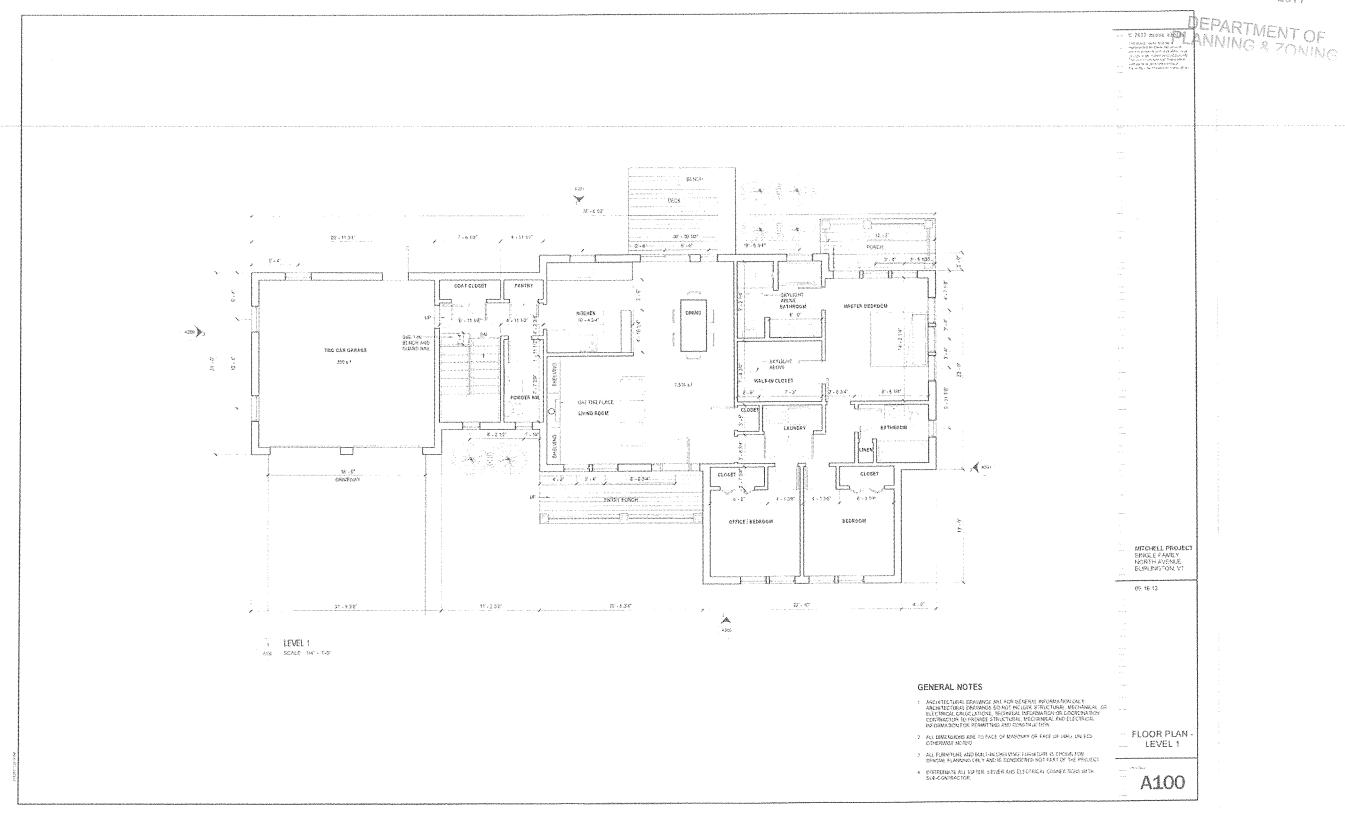


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Cast Medium Wall Mount - Rust

Product #: Z150-07 (647881007669 - 218547)

Product Specifications:

Rust Finish Collection: Straight Glass Glass: Clear Style: Traditional 4.5"x5.0" Backplate: Height: 16.00 Width: 8.00" Extends: 8.50" Bulbs: Base: Medium Max Watts: 60 Cast Aluminum Material:

Warranty: 2 years

Shipping: L:8.39"x W:8.39"x H:11.69"-3.04lbs.

Additional Information:

. Height from center of outlet box 12.25"

Resources:

Catalog View View More Like This



Related items from the Straight Glass Collection:







Z250-05-NRG

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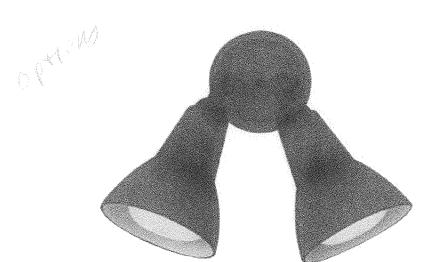
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Product Specifications:

Rust Finish Flood Collection: Backplate: 4.88"x4.88" 11.00" Extends: Bulhs: Medium/PAR

Base: Max Watts: 100 Material: Cast Aluminum Warranty: 2 years

L:11.42"x W:5.91"x H:11.22"-2.13lbs. Shipping:

Resources:

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Like 0

Hampton Bay | Model # HB7053-237

Woodmere Outdoor Oil Rubbed Bronze LED Powered Wall Lantern

** * * (10) V Write a Review + Ask & Answer (1) +





\$34.97 / each

Item cannot be shipped to the following state (\$75U,PR,VI

Williston #4501 Williston, VT 05495

Change Pick Up Store

In Stock Aisle 29, 8800A

LED

PRODUCT OVERVIEW Model # HB7053-237 Internet # 203388348 Store SKU # 323102

The Hampton Bay Woodmere Wall Mounted Outdoor Oil Rubbed Bronze LED Powered Lantern is specially designed with a low wattage LED light source that produces the same light as a regular bulb, but uses a fraction of the electricity and the LEDs never need replacing. This is modern technology in a simple, classic design that complements the exterior decor of any home. This lantern features an Oil Rubbed Bronze finish and a clear glass shade. The sturdy, weather resistant construction and waterproof seal protects it from harsh outdoor elements to ensure long life of the fixture. Installs easily and is maintenance free, delivering a welcoming, safe and reliable exterior light for less cost.

- Weather resistant construction with protective oil rubbed bronze finish
- Clear glass shade Simple, classic design
- Easy to install
- Approved for wet locations
- Includes energy saving LED light source that never needs replacing-lasts 35,000 hours

SPECIFICATIONS

Assembled Depth (in.)	7.03 in	Assembled Height (in.)	8.7 in
Assembled Width (in.)	5.22 in	Bulb Type	LED
Certifications and Listings	1-UL Listed	Dusk to Dawn	No
ENERGY STAR Certified	No	Exterior Lighting Product Type	Outdoor Lanterns
Glass/Lens Type	Clear	Light Source	LED
Manufacturer Warranty	One Year Limited Warranty	Motion Sensor	No
Number of Bulbs Required	0	Outdoor Lighting Features	Weather Resistant
Product Height (in.)	8.7	Product Length (in.)	7.03
Product Weight (lb.)	2.42 lb	Product Width (in.)	5.22
Returnable	90-Day	Size	Small
Style	Modern	Wattage (watts)	5.64 W
Weather Resistant	Yes		



Tool & Truck Rental Installation Services and Repair Gift Cards Help \$24.97 / each

Lithonia Lighting | Model # OFTR 200Q 120 LP BZ M12

2-Lamp Outdoor Bronze Floodlight

** * * (24) > : Write a Review + | Ask & Answer (5) +



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PRODUCT OVERVIEW Model # OFTR 200Q 120 LP BZ M12 Internet # 100652894 Store SKU # 596649

The Lithonia Lighting 2-Lamp Outdoor Floodlight offers a rugged, weather- and rust-resistant floodlight in a handsome bronze finish. It features adjustable heads with hoods that twist off easily when it's time to replace the two included 100-watt quartz halogen bulbs. A neighbor-friendly visor shields the light, creating an inviting exterior space as well as providing safety and security.

- Weather-resistant aluminum housing
- Clear glass with twist-off hood covers for easy bulb replacement Adjustable lamp heads with neighbor-friendly light-shielding visors
- Ideal for residential yards
- 1/2 in. knockout allows for easy installation of photo control and motion sensor (not included)
- Uses two 100 watt quartz halogen lamps (included)
- UL listed

SPECIFICATIONS

Adjustable Detection Sensitivity	No	Adjustable Lamp Head	Yes
Assembled Depth (in.)	7 in	Assembled Height (in.)	7 in
Assembled Width (in.)	5 in	Bulb Type	Halogen
Certifications and Listings	1-UL Listed	Detection Range (ft.)	0 .
Dusk to Dawn	No	ENERGY STAR Certified	No
Exterior Lighting Accessory Type	Flood/Spot Security Light	Exterior Lighting Product Type	Flood and Spot Lights
Glass/Lens Type	Clear	Light Bulb Base Code	Other
Light Source	Halogen	Manufacturer Warranty	1 year
Motion Sensing	No	Number of Bulbs Required	2
Outdoor Lighting Features	Adjustable Lamp Head,Weather Resistant	Product Height (in.)	4 in
Product Length (in.)	5 in	Product Weight (lb.)	3 lb
Product Width (in.)	8 in	Range of Motion	110
Returnable	90-Day	Timer Included	No.
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